

REPORT  
OF THE  
BOARD OF GOVERNORS  
OF THE  
UNIVERSITY OF  
ALBERTA



*Year Ending December 31st, 1920*













To His Honour

The Lieutenant Governor in Council.

Sir:

On behalf of the Board of Governors of the University of Alberta, and in accordance with section 31, subsection 2, of an Act respecting the University of Alberta, the undersigned have the honour to transmit to you, through the Minister of Education, the Report of the University for the year closing December 31, 1920.

The Report consists of two parts, Part I - the Report of the President on the academic work of the University, and Part II - the financial statement for the year.

We have the honour to remain your obedient servants,

Chairman.

President.








P A R T I

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THE REPORT OF THE PRESIDENT

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To the Board of Governors  
of the University of Alberta.

Gentlemen:

In accordance with the requirements of the University Act, Section 66, Subsection 7, I beg to submit, herewith, a report on the work of the University for the academic year ending June 30th, 1920, the twelfth annual report of the University, the tenth to your honorable body.

#### STAFF

No changes have taken place in connection with the organization of the faculties during the current year. They stand as stated to you in the report of one year ago.

Professors	21
Associate Professors	8
Assistant Professors	8
Lecturers	14
Special Lecturers	4
Instructors	4
Demonstrators	8
Student Assistants	20

Honorary Lecturers in	
Law	16

#### Extension Department-

Director	1
Assistant Director	1
Librarian	1

#### Library-

Librarian	1
Assistant Librarian	1
Sessional help	1







Physical Education-

Director	1
Assistant Director, for women	1

Correspondence Department-

Director	1
Instructors	3

Industrial Laboratory-

Director	1
Assistant Director	1





## NEW APPOINTMENTS

The following new appointments were made during  
the year:-

R.S.L. Wilson, B.Sc. (McGill) Professor of Civil and  
Municipal Engineering,

D.A. MacGibbon, M.A., Ph.D., Professor of Economics,

F.A. Wyatt, M.S., Ph.D., Professor of Soils,

J. J. Over, B.A., M.D.C.M., (McGill) Provincial Serologist  
and Professor of Pathology,

E.N. Collins, M.A. (Chicago) Assistant Professor of Anatomy,

Robert Newton, B.S.A. (McGill) Assistant Professor of  
Field Husbandry,

F.A.S. Dunn, Ph.C., M.P.S. (Great Britain), Lecturer in  
Pharmacy and Toxicology,

P.L. Backus, M.D.C.M., Lecturer in Physiology,

D.E. Cameron, M.A. (Edin.) Assistant Director of the  
Department of Extension,

C.H. Carruthers, B.A. (Toronto), B.A. (Oxon) Lecturer in Classics,

T. Mason, M.Sc., (T.C.D.) Lecturer in Botany,

Paul Wallace, B.A. (Toronto), Lecturer in English and Oral  
Composition,

William H. Hatcher, M.Sc., (McGill), Lecturer in Chemistry,

Miss Gladys Borden, B.A., (Mt. Allison), B.Sc. (Columbia),  
Instructor in Household Economics.





## RESIGNATIONS

The following resigned during the year:-

Miss Gladys Borden, Instructor in Household Economics.

Edouard Sonet, B-es-L, Assistant Professor of French.

T. G. Mason, Lecturer in Botany.

C. H. Carruthers, Lecturer in Classics.

William Hatcher, Lecturer in Chemistry.

A.J. Cook, Instructor in Mathematics.





### Changes and Promotions in the Staff

Professor Allan Rankin, M.D., C.M., L.R.C.P., M.R.C.S., C.M.G., Professor of Bacteriology and Director of the Provincial Laboratory, was made Dean of the Faculty of Medicine.

Professor H. H. Gaetz under whose guidance the School of Pharmacy has grown up became Director and Professor of Pharmacy and Materia Medica.

Miss Geneva Misener, M.A., Ph.D., Assistant Professor of Classics was made Associate Professor of Classics.

R. K. Gordon, B.A. (Oxon), M.A. (Toronto), Ph.D. (Toronto), Assistant Professor of English became Associate Professor of English.

James Adam, M.A. (Alberta), Assistant Professor of Drawing became Associate Professor of Drawing.

S.D. Killas, M.A., Ph.D., Assistant Professor of Mathematics to Associate Professor of Mathematics.

J.B. Collip, M.A., Ph.D., Assistant Professor of Physiology and Biochemistry, became Associate Professor of Physiology and Biochemistry.

A.L. Burt, B.A. (Toronto), M.A. (Oxon), Assistant Professor of History was made Associate Professor of History.

C.A. Robb, B.Sc. (McGill), S.M. (Mass. Inst. of Tech.), Assistant Professor of Mechanical Engineering to Associate Professor of Mechanical Engineering.





I.F. Morrison, S.M. (Mass. Tech.), Assistant Professor of Structural Engineering, became Associate Professor of Structural Engineering.

E. Sonet, B.-es-L (Lyons), Lecturer in French to Assistant Professor of French.

J.B. Eickersteth, M.A. (Oxon) from Lecturer in French to Assistant Professor of French.

Stanley Smith, M.A., B.Sc. (Oxon) from Lecturer in Physics to Assistant Professor of Physics.

M.H. Long, B.A. (Oxon) from Lecturer in History to Assistant Professor of History.

A.E. Cameron, M.Sc. (McGill), Lecturer in Mining Engineering to Assistant Professor of Mining Engineering.

Miss Gwynethe Tuttle, M.Sc., Instructor in Botany, became Lecturer in Botany.

George Robinson, B.Sc., M.A. (Alberta), Instructor in Mathematics, became Lecturer in Mathematics.





STUDENT REGISTRATION FOR THE ACADEMIC YEAR ENDING

JUNE 30th, 1920

The following classification of the student body under various heads; - academic, social, and religious will give some indication of the manifold interests that enter into the University:

(A) Registration by Years

Graduate students.....	43
Fourth Year .....	49
Third Year .....	155
Second Year .....	207
First Year .....	361
Law (unclassified).....	91
Correspondence Course.....	54
S.C.R. Agricultural Course.....	144

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(B) Registration by Faculties

As distributed in the various faculties  
and schools the numbers are as follows:

Arts and Sciences .....	340	
Applied Science .....	71	
Law .....	91	
Medicine .....	133	
Agriculture.....	33	
Agriculture for S. C. R. ....	144	+
Accountancy .....	16	
Pharmacy .....	43	
Dentistry .....	25	
Correspondence .....	54	
Graduate Courses .....	43	
Combined Courses-		
B.A., LL.B. ....	55	
B.A., M.D. ....	33	
B.A., B.Sc. in Arts.....	1	
B.A., B.Sc. in Applied Science .....	8	
B.A., B.S.A. ....	2	
Household Economics .....	11	





## Distribution of Students- National Origin

The following classification of students with respect to their origin shows how varied is the nationality of our student body:

1. British..... 882

(a) Canada.....645

Ontario	341
Alberta	115
Manitoba	50
Quebec	38
Saskatchewan	25
Nova Scotia	23
British Columbia	21
New Brunswick	17
P. E. Island	13

### Alberta

Edmonton	33
Medicine Hat	14
Wetaskin	11
Calgary	9
Red Deer	9
Lacombe	5
Okotoks	4
St. Saskatchewan	3
Pincher Creek	4
Innisfail	3
Fort Brillon	3
Wetaskin	3
Camrose	3
Cardston	2
High River	2
Olds	2
Ponoka	2
Athabasca Landing	1
Beaver Lake	1
Ben Accord	1
Burnt Lake	1
Ellerslie	1
Excelsior	1
Gleichen	1
Leduc	1
Morley	1





Oxaton	1
Saddle Lake	1
Spring Bank	1
Spruce Grove	1
Tofield	1

(b) England	186
Scotland	47
Ireland	23
Wales	14
Newfoundland	5
India	3

## 2. Foreign Countries .....318

### United States .....177

Minnesota	15
North Dakota	15
South Dakota	14
Nebraska	13
New York	10
Iowa	9
Massachusetts	9
Washington	9
Wisconsin	9
Michigan	8
Missouri	8
Illinois	7
Montana	7
Pennsylvania	7
California	6
Kansas	6
Maine	4
Ohio	3
Oklahoma	3
Vermont	3
Idaho	2
Indiana	2
Kentucky	2
Tennessee	2
Wyoming	2
Colorado	1
Utah	1



Russia	18
Austria	7
Galicia	3
Sweden	2
Ukraine	2
Ceylon	1
China	1
Denmark	1
Germany	1
Iceland	1
Norway	1
Roumania	1
Switzerland	1
Turkey	1

(3). Not mentioned ..... 23





The Religious Affiliations of the Students in the University  
as shown by their Registration Cards

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Presbyterian	356
Methodist	286
Anglican	184
Roman Catholic	79
Baptist	68
Lutheran	24
Hebrew	20
Greek Catholic	14
Congregational	6
Unitarian	6
Church of Christ	4
Latter Day Saints	3
Re-Organized Church of Latter Day Saints	1
Christian Science	2
Brethren	1
Church of Scotland	1
Friend	1
"Protestant"	14
Not given	31
None	2





## Distribution of Students in the Province

Of the total number of students 910 give their home addresses in the Province, representing the following places:-

Alliance, Bashaw, Bassano, Bawlf, Bellevue, Bentley, Beverly, Big Valley, Bindloss, Bittern Lake, Bon Accord, Bowden, Bremner, Buffalo View; Cadogen, Calgary, Calmar, Camrose, Cardston, Carmangay, Carstairs, Caster, Chauvin, Chinook, Clairmont, Claresholm, Cold Lake, Coleman, Colinton, Collholm, Compeer, Ceneration; Dalemead, Dalroy, Daysland, Delia, Dewberry, Dickson, Didsbury, Donalds, Drumseller; Eckville, Edgerton, Edmonton, Edison, Evansburg; Eldorena, Everts, Eyremore; Ferintosh, Fort Saskatchewan; Gadsby, Gainford, Gleichen, Grainger Station, Grand Prairie, Graman; Hardisty, Hartshorn, Hethersage, Hayter, Heath, High River, Hughenden; Innisfail, Innisfree, Irma, Irricana, Islay; Kneeshill Valley; Lacombe, Lake Isle, Lamont, Langdon, Lavoy, Ledac, Leighton, Lethbridge, Linaria, Lloydminster, Lussignan; Mannville, Macleod, Medicine Hat, Millet, Morinville, Mundare; New Bridgen, Nevis, Nordegg; Oxbow, Okotoks, Olds, Oyen; Pincher Creek, Poe, Ponoka, Prosper, Provost; Railway Centre, Red Deer, Red Willow, Richdale, Rimbey, Rochester, Rocky Mountain House, Rosebud Creek, Rosedale; Scollard, Sedgewick, Sibbald, Springbank, Spruce Grove, Stanmore, St. Albert, Staveland, Stettler, Streamstown, Strons, Sunnyslope, Sulphur Springs, Sylvan Lake,



Taber, Three Hills, Tofield, Tomahawk, Trochu, Tudor ; Valhalla,  
Vegreville, Vermilion, Veteran, Viking, Villeneuve ; Wainwright,  
Warner, Warwick, Watts, Waukegan, Wetsaskiwin; Youngstown.





# Registration by Subjects

Subject	No. of Courses as shown in the Calendar	Number of Students	Total
Accountancy	51	<u>3</u>	3
Anatomy	1;2;12;14 6; 10; 53;54;60	29 24 31 <u>84</u>	116
Animal Husbandry	1; 2;3; 51;52;54	14 12 <u>6</u>	32
Architecture	1; 2;3;5;6; 55;	3 1 <u>14</u>	17
Bacteriology	1; 51;	29 <u>12</u>	58
Biology	1;2; 3; 4; 51	129 39 33 <u>10</u>	201
Chemistry	1; 2;3; 4; 51; 55; 56; 58; 59; 67; 101; 102;	87 121 13 7 15 3 4 3 6 1 <u>3</u>	263



Subject	No. of Course	No. of Students	Total
Civil Engineering	1;2;3;4;5; 6; 7; 51;63 57;59b;61;66;72 53; 54;59a;60;62;64;68; 55; 56;68; 57 58 65 67 70 73	13 27 7 4 5 5 3 7 1 7 1 5 6 3 6	103
Clinical Laboratory	51;	29	29
Clinical Medicine	51;	29	29
Drawing	2; 3; 4; 5;	24 30 37 13	104
Education	51;	1	1
English	1; 2; 3 3; 54 55 56 59 100	17 143 13 41 6 10 10 31 2	434
Field Husbandry	1; 2; 51;	13 13 7	33





Subject	No. of Courses as shown in the Calendar	Number of students	Total
French	31, 32; 1; 3; 2; 4; 41; 51; 52; Special graduate course	140 63 70 103 111 44 31 6 <u>2</u>	560
Biology	31; 51; 52; 53; 54; 56, 57; 58; 59; 61; 62; 103;	13 42 6 2 6 3 6 2 3 20 <u>2</u>	95
German	31, 32; 1; 2, 4; 3; 41; 52;	24 7 14 5 3 <u>2</u>	55
Math	2, 4; 31; 55;	3 2 <u>1</u>	6
History	1 (a) 1 (b) 2 56; 57; 58; 59 61	242 134 84 28 36 34 89 6	



Subject	No. of Courses as shown in the Calendar	Number of students	Total
	63; 64 65 102	5 17 28 <u>7</u>	710
History of Agriculture	1; 2; 51;	13 12 <u>7</u>	32
Horticulture	1;	<u>12</u>	12
Household Economics	1; 3; 31; 56, 58, 59; 57; 52	7 1 2 1 2 <u>20</u>	33
Latin	31; 32; 36; 1; 3; 2; 4; 51;	139 35 12 64 68 88 83 <u>7</u>	496
ateria Medica	1;- 3;	15 <u>27</u>	42
Mathematics	1; 1 (Adv. Sect.) 2; 3; 4, 6, 8; 5; 7; 9, 11; 31;	120 17 41 41 34 38 35 14 11	





Subject	No. of Courses as shown in the Calendar	Number of students	Total
Mathematics (cont'd)	33;	12	
	36;	21	
	51;	9	
	52;	6	
	53;	22	
	54;	7	
	59;	6	
	60;	3	
	101;	2	
	102;110;	3	
	Honours, (Oral exam.)	<u>1</u>	443
Mining Engineering	52;55;56;	3	
	54;	5	
	57,58,59,60,61;	2	
	62	<u>4</u>	14
Pathology	51,52;	<u>29</u>	29
Pharmacy	1,2;	15	
	3;	<u>28</u>	43
Pharmacology	51;	<u>31</u>	31
Philosophy	1;	89	
	51;	37	
	53;	7	
	103;	<u>1</u>	134
Physical Education	Men, First Year	235	
	Men, Second Year	104	
	Women, First Year	51	
	Women, Second Year	<u>58</u>	448



Subject	No. of Courses as shown in Calendar	Number of students	Total
Physics	1; 2; 3; 4; 5; 6,7; 8,51; 31,32	211 162 46 49 39 17 8 11	543
Physiology	1; 2; 51;	31 36 29	96
Prosthetic Dentistry	First Year Second Year	21 3	24
Psychology	51; 53; 104;	13 28 1	42
Soils	1; 51;	13 6	19
Surgery	51;	29	29
Toxicology	1;	15	15
Veterinary Science	2; 51;	11 7	18
B.D.		6	6





Subject	No. of Courses as shown in the Calendar	Number of students	Total
Common Law	1st year	30	
Equity	1st year	30	
Contracts	1st year	30	
Real Property	1st year	30	
Canadian Constitutional Law	1st year	<u>30</u>	30
Canadian Constitutional History	LL.B.	20	
English Constitutional History	LL.B.	<u>20</u>	20
Common Law	2nd year	28	
Equity	2nd year	28	
Contracts	2nd year	28	
Torts	2nd year	28	
Real Property	2nd year	28	
Criminal Law	2nd year	28	
Practice and Procedure	2nd year	28	
Evidence	2nd year	28	
Private International Law	2nd year	<u>28</u>	28
The Law of the Constitution	LL.B.	25	
The Law of the Colonies	LL.B.	<u>25</u>	25
Common Law	3rd year	21	
Equity	3rd year	21	
Contracts	3rd year	21	
Torts	3rd year	21	
Mercantile Law	3rd year	21	
Wills and Construction of Statutes	3rd year	21	
Constitutional Law	3rd year	21	
Criminal Law and Practice	3rd year	21	
Private International Law	3rd year	21	
Practice and Procedure	3rd year	21	
Evidence	3rd year	21	
Company Law	3rd year	<u>21</u>	21
Jurisprudence	LL.B.	<u>12</u>	12
Public International Law	LL.B.	12	
History of English Law	LL.B.	12	
Roman Law	LL.B.	12	
American Constitutional Law	LL.B.	12	
The World's Legal Philosophers	LL.B.	12	
Ancient Law	LL.B.	<u>12</u>	12



## DISCIPLINE

With regard to discipline I beg to state that while we had some difficulty at the beginning of the term on account of the demand for social life and the lighter side of college life being fairly insistent, and though we admit that some curtailment of such activities in the future will be necessary, we beg to express profound pleasure at the general conduct of the students and to state that on the whole the discipline of the place has been excellent. I desire to speak especially of the splendid conduct of the returned soldier students and of the way they settled down to the intelligent handling of their own college life. The manner in which they assisted us in securing the reatraction of those traditions which had been established previous to the war, some of which it had been found necessary to abandon due to the presence of so many junior students during that period, deserves and receives our gratitude.





### SCHOLARSHIP

With regard to the academic work done by the students during the year, the remarks already made concerning discipline apply . That is, during the earlier period of the year we had some anxiety due to the same cause that affected discipline , but gradually the students settled down to the serious prosecution of the work of the year. The final examinations showed that a good average year's work was done.



## Convocation

The Convocation for the year was held on May 13th,  
1910.

The following persons were admitted to degrees  
in the University:

### Admitted to the Degree of Bachelor of Arts

Anderson, Esther Irene  
Anderson, Ernest Hjalmar  
Bailey, Kenneth LeRoy Cove  
Becker, Charles  
Colter, Robert Kennedy  
Clark, Roy Percy  
Clark, Giles Harwin  
Craig, Gwynnfred Ann  
Dickins, Francis Collingwood  
Duncan, Grace Helen  
Dunham, Aileen  
Dunham, Walker  
Emery, Howard Tracy  
Ferguson, Kathleen  
Forster, Ralph Perrin  
Fraser, Elizabeth Kennedy  
Hamilton, George Henry  
Henderson, Flossie Cathleen  
Hull, Louie Mildrid  
Johnson, Gladia Grace  
Kane, Edward William Scott  
Longhead, Edgar  
Love, John Russell  
MacGillivray, Robert Brown  
McFarland, Constance Nettleton  
McNaught, Robert Adair  
Michener, Daniel Roland  
Paton, Thomas Stevenson  
Porteous, Bessie Offord  
Teviotdale, David Jefferson  
Tillotson, Hazel Blanche  
Tooke, Clarence Hall  
Tregillus, Muriel Claire  
Summerhayes, Morcy Beatson  
Watson, Cecilia Barbara  
Wells, Thomas Henry





Admitted to the Degree of Bachelor of Arts, Ad Eundem:

---

Ball, Margery Clark, B.A.  
Bayley, Milton Dawson, B.A.  
Bergsagel, Knut, B.A.  
Card, Gerald, B.A.  
Dobson, William, B.A.  
Edmonds, W. Everard, B.A.  
Jampolsky, Moses, B.A.  
Lake, Ethel Margaretta, B.A.  
Pearce, Walter Richard, B.A.  
Tilson, Frederick Lemon, B.A.  
Wallace, Paul Anthony Wilson, B.A.

Admitted to the Degree of Bachelor of Science in Arts:

---

Cook, Alexander Joseph (First Rank in Honours in Mathematics)  
Francis, Samuel Augustus Moulton  
Hetsen, Helen Josephine  
Lehmann, Julius Ferdinand  
Miller, Robert Perry

Admitted to the Degree of Bachelor of Science in Engineering:

---

Batson, Frederick James  
Carswell, John Arthur  
Hollies, Robert Talbot  
Lillico, Robert Sewell Bruce  
McKittrick, Elmer Samuel  
Miller, Lawrence Victor  
Reilly, Charles Frederick

Admitted to the Degree of Bachelor of Science in Agriculture:

---

Buckley, George Frederick Harland  
Hillerud, Sylvan Oswald  
Jacobson, William Levi  
Martin, John Noy  
Robinson, Victor Byron  
Sanford, Guthrie Brown



Admitted to the Degree of Bachelor of Science in Household Economics

---

McKinnon, Edith Catherine

Admitted to the Degree of Bachelor of Laws

---

Bryenton, Percy Roland  
Day, Frederick George  
Fraser, Harry Blackwood  
Grinnett, Tom Thatcher  
Soltan, Wilfrid Gustave

Admitted to the Degree of Doctor of Dental Surgery:

---

Mullin, John Alexander    MacDonald  
Sands, Sydney Henry

Admitted to the Degree of Doctor of Medicine, Al Hurst:

---

Hankinson, Cecil Hazen, M.D., C.M.

Admitted to the Degree of Bachelor of Divinity

---

Geeson, John Richard, B.A.  
Laycock, Samuel Ralph, M.A.  
Sykes, William, B.A.



Admitted to the Degree of Master of Arts:

---

Flack, Gordon Lewis, B.S.A.  
Lake, Ethel Margaretta, B.A.  
Mattern, Leroy, B.A.  
McNamara, Sister Annie Bernadette, B.A.  
McNamara, Sister Mary Ethelbarga, B.A.  
McQueen, Robert, B.A.  
Morecombe, Percy Frederick Guido, B.A.  
Niddrie, John George Francis, B.A.  
Robinson, George, B.Sc.  
Renning, Nelius Theodore, B.A.  
Smith, Walton Larue, B.A.  
Stewart, Grace Anne, B.A.  
Sykes, William, B.A.

Admitted to the Degree of Master of Science in Arts:

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Rutherford, Ralph Leslie, B.Sc.

Professional Examinations

Since Convocation 1919, the following persons have passed the examinations for License to Practice, conducted by the University on behalf of the Affiliated Professional Societies:

Accountancy- Carr, A.H.; Gregory, E.T.; Maxwell, G.A.;  
Sterns, P.W.; Watson, J.W.

Dentistry- Allen, G.A.; Budd, G.E.; Coffin, A.H.;  
Dawe, J.H.; Denholm, R.F.; Johnson, R.J.;  
Lending, H.M.; Lipsey, C.H.; McClurg, W.C.;  
Mollin, J.A.; Sanie, S.H.; Taylor, H.A.

Land Surveying- Atkins, J.R.; Atkins, C.B.; Berry, E.W.;  
Bradley, N.H.; Coursier, E.C.; Duffield, R.Jt.;  
Montgomery, R.H.; Calmer, L.P.; Robertson, B.W.;  
Russell, J.

Law- Albright, Evelyn K.; Arnold, C.R.; Atkinson, W.G.;  
Barron, A.L.; Bridges, E.C.; Buchanan, G. F.;  
Campbell, J.M.; Craig, L.A.; Dunne, P.M.; DeFoe, L.G.  
Gerside, T.E.; Helman, S.J.; Hudson, E.H.; Harlburt, H.S.  
Kichman, J.S.; Lincoln, A. G.; Mahaffy, A.;  
Knight, A.M.; O'Connor, T. J.; Reach, T. F.; Sella, J.F.C.





Medicine -

Backus, P.L.; Bowles, A. W.; Burnett, A.;  
Casey, L.R.; Giffen, J. W.; Hill, F.E.;  
Mann, S.M.; Miller, F. G.; McCullough, R.C.;  
Riopel, J.; Rosenkrans, L.; Rowe, E.A.;  
Valens, A.W.

Pharmacy-

Clark, J.F.; Cragg, M.B.; Gagner, T.E.;  
Hall, G.; Johnston, J.S. McKinnon, W.S.;  
Patterson, T.E.H.; Rhymes, J.B.; Waite, J.L.



## Donations

During the year we have been in receipt of various donations from Friends of the University. These have been reported to the University Senate for acceptance from time to time and are as follows:

The University has received through Dr. Boninali of the British Museum a gift of a collection of plants for use in the Department of Botany. These plants were collected in 1891 in the vicinity of Boston.

A gold medal from Mr. James Ramsey, U. I. A. to be given for exhibition annually to students in the graduating year residing for honors in the Department of Mathematics; to be known as the James Ramsey Gold Medal in Mathematics.

A prize of books of the value of ten dollars offered by the Société des Étudiants Français to the student enrolled in French 1 and 2 who makes the best average record in the test and final examinations in these two courses.

A prize of books of the value of fifteen dollars offered by Le Comité Permanent de la Langue Française to the student making the best record in French 52.

A prize of books of the value of fifteen dollars offered annually by the Historical Club of the University of Alberta, to the student making the best record in History 1, provided such student receive first class standing on his year's work in History and a pass in all other subjects.





A gift from Mrs. J. R. Ferris to the University Museum of a collection of bombs, masks, and flares, made by her late husband, Captain J. R. Ferris of the 49th Battalion.

A gift of an exhibit from the Northern Alberta Branch of the Canadian Mining Institute.

From J. Homer Lyons, a gift of a show case of fancy horse shoes for the museum of the Faculty of Agriculture.

From the Hon. A.L. Sifton a gift of \$1000. toward the Memorial Fund.



## SEVENTH ANNUAL CONFERENCE OF CANADIAN UNIVERSITIES

The seventh annual conference of Canadian Universities was held at Quebec in May 17th and 18th. It was impossible for me personally to be present but the University was represented by Dean Kerr of the Faculty of Arts and Dean Rankin of the Faculty of Medicine. Many matters of great importance to the Canadian Universities came up for discussion some of which are as follows:-

First,- The establishing of graduate work in Agriculture in the various Universities of Canada. It was pointed out that at the present time, it was necessary for students to go to foreign agricultural colleges in order to take a course leading to a graduate degree. It is hoped that in the very near future this deficiency will be corrected.

Second, The Committee that had been discussing the matter of graduate degrees for Canadian students with the British and French Universities was able to report that complete arrangements were now being made for the purpose of permitting students to take courses in the Universities of those countries.

Third,-The question of assistance for soldier students came up also for discussion. It was pointed out that in every university of Canada there was a large number of students who were finding it impossible to continue their education because of the loss of time during the war and their inability to continue without some assistance.

This was regarded and is still regarded as a matter



of very great importance not to the Canadian Universities only but to Canada as a whole.

Fourth,- The Conference of Canadian Universities which is to be held in June and July, 1921, in London. It is expected that this will be a very important gathering from the point of view of University education.

Fifth,- The Committee on Uniformity of Matriculation reported that so far it had been found impossible to reach any general scheme to which all the Universities would be willing to conform.

Sixth,- The report by the Committee on Medical Education was the subject of a most important discussion. Two plans which may be known hereafter as the McGill and the Toronto plan were submitted. These two schemes had this in common, that they both demanded a seven years course leading to a degree of Doctor of Medicine, the final year being a hospital year. They differed in this: the McGill plan called for two years preparatory instruction in the Faculty of Arts, while the Toronto plan called for two corresponding years to be given under the direction of the Faculty of Medicine. These institutions will probably try out their respective ways of dealing with the subject and their experience should be of great benefit to the other Universities.

Seventh,- The whole subject of Military Training in Universities was brought under review, there being present three representatives from the Department of Militia.





Finally, it was recommended that in view of the fact that a Conference of the Universities of the Empire is to be held in 1921, there should be no Conference of the Universities of Canada for that year.



## CONFERENCE FOR YOUNG FARM PERSONS

Again this year, in response to a request from the U. F. W. A. a conference for Farm Young People was held at the University during the week- June 14th to 19th, inclusive, 1920. The object of the Conference, as I have stated before, was for the purpose of offering some light and leading to young people on the farms who had been compelled to leave school early and had lacked opportunities for self-improvement. There were in attendance one hundred and two delegates: fifty one girls and fifty one boys, together with chaperones and supervisors sent by the U. F. W. A. Forty communities were represented, scattered all over the Province from Lanesville in the South to Westlock and Sangudo in the North, and from Alaskan and Lloydminster in the East to Stony Plain in the West. The detailed arrangements on behalf of the University were carried out by the Department of Extension, under the direction of Mr. A. E. Ottewill, the Director. Some ten members of the University staff gave lectures and talks on various subjects which were very helpful and were much appreciated. The delegates were very enthusiastic and the unanimous request was made to repeat the Conference again next summer.





## SUMMER SCHOOL FOR TEACHERS

The University buildings and equipment were again made available, during July and August, to the Department of Education for the Summer School for Teachers. The experiment started a year ago of giving, at the Summer School, certain courses of University grade counting towards a degree met with such favour that it was continued. Courses in French, Latin, Mathematics and Physics were offered, there being thirty-six students registered in these various courses. The plan has worked well, making it possible for students, in two Summer School sessions, to complete in certain subjects the work of the Freshman Year in Arts. It is the intention to give the students who have now completed the first year's work by this method, an opportunity of taking the Second Year's work. The various departments of the University were drawn upon for staff for the Summer School.

Including those who were doing work of a University grade, the total enrolment for the year was four hundred and twenty-six. The total enrolment for Summer School classes under the Department of Education was three hundred and ninety. This School is becoming a very important factor in the life of the teachers of the Province.



## NEW BUILDINGS

The opening of the session saw such an increase in the number of students in attendance that the crowding of the class rooms reported last year presented even a greater problem than heretofore. . The Anatomical, Chemical and Physics Laboratories were so crowded that it was with great difficulty that we got through the year without a serious breakdown. The Board of Governors authorized the immediate construction of a new Medical Building to contain the Departments of Anatomy, Physiology, Biochemistry, Pharmacology, Pathology, Clinical Medicine and Surgery, the Provincial Public Health Laboratories and in addition the University Department of Chemistry . It is hoped that at least some of this accommodation will be available for the year 1920-21.



## THE SCIENCE ASSOCIATION

During the year the scientific members of the staff organized a Science Association for the University of Alberta. The Association aims at two things-

First,- To bring before the scientific men of the University the progress of science as represented in the Scientific Journals published in various countries of the world.

Second,- To promote scientific research within the University.

One of the first steps taken by the Association was to set out a list of problems for research which they regarded as of such pressing importance that their solution should be undertaken forthwith. A memorandum covering the matter, signed by the scientific men of the University, was presented to the Government. The solution of some of these problems is already under way at the University.

Coupled with this Scientific Association in the University, I beg to call attention to another matter of equal importance, viz., the arrangement made between the University and the Government of Alberta for the carrying on of scientific research in the University in connection with certain problems of great economic significance to the Province. During the year steps were taken to place a certain number of men upon the University staff who were to devote their time wholly to research and to undertake the solution of specific problems assigned to them by the government of the Province. The work being carried on by members of the University staff, under arrangement with the government, in the direction of collecting, compiling and making available information regarding the natural resources is being pressed as rapidly as possible.





This is a work in which every scientific worker in the University enters most cordially.

In view of the fact that the University has now entered definitely upon a period when the publication of the results of research work by members of the staff will become an important factor of the University's activities, Appendix No V has been added to this report, giving a complete statement of the publications by members of the staff to date . This list includes work done before entering upon duties at the University as well as work done since the persons named have become members of the staff.



### Soldiers Civil Re-establishment

I would like specially to call attention to the work that has been done in the University this year for the returned soldiers by the Faculty of Agriculture. As the figures show, we have a large number of such men at work in the University. The work done under the direction of Dean Howe has commended itself not only to the soldiers themselves but those who are responsible for the soldiers' interest. Dean Howe has received heartiest congratulations from those in authority for the success of this work and I am gratified to be able to say that not a single untoward incident has taken place with this large body of men in the University and that they themselves have been deeply appreciative of the work that has been accomplished. It is a pleasure to meet some of those who have left and hear them speak of the days when they were at college.





## SOLDIER STUDENTS AND MEMORIAL FUND

During the year the question of the continuation of overseas soldier students in the University became a critical one due to the fact that the Dominion Government would make no provision either by way of loans or gifts for that purpose. This is difficult to understand when one recalls the fact that the British authorities made provision for gifts amounting to £6,000,000 for men of university grade and £10,000,000 extra for technical and commercial education to be applied wholly in the interests of those whose education had been interfered with by the war. In this generous gift they included all men who had served directly in the British forces, permitting them to study in England. In every case the gift to the individual amounts to £175 a year and fees, covering a period of at least two years.

The handling of this matter for the Dominion of Canada was left by the British authorities in the hands of a committee consisting of Dr. MacEachran and myself of the University of Alberta and Dr. Frank Adams of McGill University, Montreal. It is not possible to state at the present moment how many candidates have benefited by this plan, but the information at hand shows that a very large number have been so benefited. The judgment is ventured that it will amount to far more than the whole of the Rhodes Scholarship scheme to date.



To return, however, to the immediate needs of the soldier students: the Memorial Committee which was re-organized last year took the whole matter up and agreed to make an effort to raise \$50,000 of which sum approximately \$20,000 would be set apart ultimately for a physical memorial and the balance invested for the purpose of scholarships which would be made available in the first instance to the children of returned soldiers . It was agreed, however, that the first use to which the money should be put would be by way of loans to the soldier students at present in the University . A gift of \$1000 to this fund was received from the late Hon. A. L. Sifton. It is anticipated that a sum of at least \$10,000 would be made available from Khaki University funds, the result of salvaging materials used in the Khaki University. The balance necessary for the fund is being collected by subscription from friends of the University.

One final word about the business of the Khaki University: the responsibility of administering certain funds salvaged from the Khaki University overseas and also of issuing certificates and adjusting courses for the Khaki University students all over Canada has been carried on by your President during the past year. It is to be hoped that at a meeting to be held in Toronto early in January 1921, the whole matter will be finally settled up.



## CONCLUSION

I attach herewith as Appendices to this Report  
the following special reports:

The Report of the Faculty of Agriculture, as Appendix I

The Report of the Department of Extension, as Appendix II

The Report of the Provincial Laboratory, as Appendix III

The Report of the Industrial Laboratory, as Appendix IV

The Report of the Publications and Research done by  
Members of the University Staff, as Appendix V.





APPENDIX I

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THE REPORT OF THE FACULTY OF AGRICULTURE

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## REPORT OF THE COLLEGE OF AGRICULTURE

### FOR THE YEAR 1920.

The enrolment of students in the College of Agriculture for the year 1920 is as follows:

<u>Spring Term:</u>	First Year	-	14
	Second Year	-	13
	Third Year	-	6
	Special	-	2
			<hr/>
	Total		35
	Special Returned Soldiers	-	137
 <u>Fall Term:</u>	First Year	-	22
	Second Year	-	11
	Third Year	-	10
	Combined -	-	8
	(Arts and Agriculture)		
	Combined(Special)		1
	Special	-	3
			<hr/>
	Total	-	55
	Special Returned Soldiers	-	7

The Special Course for Returned Soldiers was maintained until the last of June when the attendance fell so low that the Department of Soldiers' Civil Re-Establishment decided to discontinue the course. During the Fall Term we have been giving special courses to a few men - seven in number - all that are left desiring agriculture, under the auspices of the S.C.R.

Of our graduating class, six are specializing in Animal Husbandry and four in Soils. It might be interesting to mention that six of these students intend returning to their own farms.



## REPORT OF THE COLLEGE OF AGRICULTURE - 1920.

Of the forty-three students who have been taking the degree course during the Fall Term, thirty-nine came from the Schools of Agriculture and four from other institutions. A few show a lack of sufficient elementary training, the rest are quite able to carry on their work. Students contemplating taking this course should be advised to secure as much High School training as possible before entering the University.

Standard courses are given in the Departments of Chemistry, Physics, Biology, Bacteriology, Geology, English and Mathematics. The following is a general report of the Departments which may be described as more directly agricultural:

### Department of Horticulture

A limited amount of instruction is given in this subject and some work of an experimental nature is carried on. The latter has not gone much beyond standard variety tests, cultural tests, and experiments in the utilization of native fruits. There is a great field for service in connection with this Department as the Institution develops.

### Department of Poultry

Instruction in Poultry was given during the Fall Term. A Lecturer in Poultry has been appointed and the development of this Department will no doubt be rapid.

### Department of Farm Engineering

A Professor of Farm Engineering was appointed during the year. No teaching was done during the Fall Term but preparation





## REPORT OF THE COLLEGE OF AGRICULTURE - 1920.

has been made to start at the beginning of the New Year, when courses in Farm Building Construction will be given.

### Department of Soils

This Department has been under way for one year. The students' laboratory is now fully equipped and the research laboratory is also being set up. In addition to the courses given to the students, Dr. Wyatt devoted the summer to getting acquainted with Provincial problems and with people interested in these problems. He made an extended trip to the Peace River District, bringing home many samples which will form the basis of a report on soils of certain areas in the North country. Dr. Wyatt also attended the Irrigation Convention at Lethbridge, following which he accepted the invitation of the C.P.R. officials to visit their different projects. We hope to work in co-operation with the experts in the employ of the Canadian Pacific Railway Company.

### Department of Animal Husbandry

Our Department of Animal Husbandry has made still further progress this year. The new farm purchased for this Department has not been improved because of delay in securing the title. The land already cleared however, was utilized. Besides the natural increase in live stock, certain additions were made through purchase, chief of which were a Hereford bull, a small herd of Angus cattle and a pair of Belgian mares. We can report a very successful year as far as health and development of live stock is concerned.





REPORT OF THE COLLEGE OF AGRICULTURE - 1920.

The Department of Animal Husbandry is maintained on an experimental basis. That does not mean that all the pure-bred stock is used for experiments; very little of this live stock is used for that purpose but other animals are purchased, used, and sold, for purposes of feeding and other experiments. The following is a statement in regard to some of the research work now under way:

1. Feeding Two-year-old Steers for Market.

For purposes of this experiment sixty, two-year-old steers have been divided into ten uniform groups for a five months' feeding test, the object of this test being to secure information on, (a) the best type of steer for winter feeding; (b) to compare sunflower silage, oat silage, oat and pea silage, prairie hay and grain; (c) to compare light and heavy grain feeding, (d) to determine whether feeder steers can be profitably fed for market on Alberta feeds. We have an open mind on this subject as on all other problems and believe that this particular question is one worthy of careful investigation.

2. Winter Rations for Breeding Ewes.

The object of this experiment is: (a) to determine the comparative value of alfalfa hay, timothy hay, oat green feed and oat straw; (b) to determine the comparative value of combinations of feeds; (c) to show the comparative effect of feeds on the growth of the fleece and size and strength of the lambs. This experiment has been conducted during the winter of 1920 and will be continued during the coming winter, results to date showing a very striking difference in the





## REPORT OF THE COLLEGE OF AGRICULTURE - 1920.

feeding value of the roughages. In every case the increase in growth of the fleece was an accurate index of the condition of the ewes and the size of lambs. Complete results have been prepared for the use of sheep producers. At the close of this winter's work a bulletin will be published covering the two years' work.

### 3. Silage for Breeding Ewes.

Six different lots of ewes are being fed with the idea of determining the relative value of sunflower, oat and oat and pea silage as a partial substitute for hay.

### 4. Feeding Lambs for Market.

This experiment was carried on in 1919. In 1920 four different lots were fed on the same grain mixtures with different roughages, alfalfa hay, prairie hay, oat green feed. In 1919 the green feed ranked first in economy of gains. The same holds true as a result of the 1920 test. This information is very important because green feed is the cheapest roughage available on most Western farms. Complete information is ready to be published.

### 5. Winter Rations for Brood Sows.

We have now completed three years' work in comparing different feed combinations for breeding sows. With four years' work available in the Spring of 1921 material will be ready to publish a bulletin covering the results of our operations to date.

The question of hairless pigs has been under consideration for some time. Some stations announce that potassium iodide will





## REPORT OF THE COLLEGE OF AGRICULTURE - 1920.

overcome this difficulty. We do not dispute the point but we are inclined to think that certain feed combinations will prove effective.

### 6. Summer Feeding Pigs on Pasture.

Results of our work in 1918 and 1919 are ready for publication this year. During the summer of 1920 a comparison of forage crops was continued with check lots under dry conditions.

### 7. Finishing Pigs for Market.

During the Fall of 1920 tests were made with eleven lots of pigs to determine the comparative value of oats, barley and wheat for fattening. In view of the fact that protein supplements are very high in price compared to coarse grain, the results of this experiment are very interesting and information is ready for publication in circular form.

### 8. Winter Feeding Fall Pigs.

This is a test on the comparative value of cooked and uncooked feeds, during winter feeding. Information will be available in the Spring.

### 9. Dairy Cattle Records.

Careful records of feed consumed and milk or butter fat produced, have been kept for all cows in the herd since May, 1917. We have valuable information ready for publication. It will be interesting to note that one of our cows holds the three-year-old record for the Dominion of Canada.

### 10. Exhibition.

During 1920 our pure bred steer demonstration was carried to a successful conclusion by the exhibition at the International





REPORT OF THE COLLEGE OF AGRICULTURE - 1920.

Live Stock Exposition at Chicago and the Winter Fair at Guelph, of fourteen steers, bred in Alberta and fed at the University entirely on Alberta feeds. These are the steers which were reported last year as having been presented by breeders throughout Alberta. The names of those who donated them will be found in a detailed statement. Not only have we had this splendid material for class work but, as a demonstration of the types Alberta is capable of producing, this exhibition has been unsurpassed. Our collection consists of seven Herefords, five Aberdeen Angus and two Shorthorns. A brief summary of our winnings at the two Shows mentioned, may be added:

At Chicago:

In the Open Classes we won:

Shorthorns - 8th in class of 26.

Angus - 3rd in calf class.

- 5th in junior yearling class.

23 entries.

In Herefords we won:

7th, 10th, 11th, 13th, 17th and 20th places  
in a class of 47.

In the Clay Robinson Special Junior Yearlings -

any breed or cross, 32 entries, we won:

1st, 4th and 6th places.

In the Clay Robinson Special best five of any age or breed -

14 entries, we won 2nd place.



REPORT OF THE COLLEGE OF AGRICULTURE - 1920.

At Guelph:

In Shorthorns we won 1st place and Reserve Championship.

In Aberdeen Angus calves we won 1st place and in yearlings 5th and 6th places and Championship for the breed.

In Herefords we won the first seven places and Championship.

In herds of three we won, 1st, 3rd and 4th places and finally won Reserve Grand Championship for the whole Show.

These steers were brought back to Edmonton; after being exhibited at Calgary and Edmonton they will be sold. We feel that this effort has been highly successful and will be worth a great deal to the Province.

Department of Field Husbandry.

The work of the Department of Field Husbandry may be considered under two divisions - field crop work and extension work. The field crop work is experimental in its nature, being made up of five classes of experiments in variety testing, tillage experiments, crop rotation, crop management and crop improvement. A brief report on each of these divisions as applied to cereals, forage crops and potatoes follows:

(a) Variety Testing.

In cereals, tests were made of varieties in each class ranging from fifteen to thirty-five in number. Our results for this year would go to show that the following varieties are apparently most suitable to Alberta: Marquis and Ruby Wheat; Banner, Victory, Ligowo, Abundance and Gold Rain Oats;



In the preceding issue we have seen that the  
importance of the patient's history and physical  
examination in the diagnosis of disease cannot be  
overstated. It is the basis of all medical  
reasoning and the starting point for all  
diagnostic and therapeutic measures.

The history and physical examination are the  
cornerstones of the medical profession. They  
provide the information upon which the physician  
must base his diagnosis and treatment.

It is the duty of the physician to obtain a  
thorough and accurate history and physical  
examination of every patient. This is the  
only way to ensure that the patient receives  
the best possible medical care.

### THE HISTORY AND PHYSICAL EXAMINATION

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most important parts of the medical examination.  
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the best possible medical care.

### THE HISTORY

The history is the first part of the medical  
examination. It is the information that the  
physician obtains from the patient about his  
illness. The history is the basis of all  
diagnostic and therapeutic measures.

REPORT OF THE COLLEGE OF AGRICULTURE - 1920.

O.A.C. No. 21, and Canadian Thorpe Barley; Alberly Blue Peas, and North Dakota 959 Rye. As a result of extensive tests in forage crops a tentative recommendation as to desirable varieties might be as follows: Grimm Alfalfa, Altaswede Red Clover; White Blossom Sweet Clover; Northwestern Dent Corn; Western Giant Sunflowers. Over seventy-five varieties of potatoes have been tested for yield and cooking qualities, Irish Cobbler so far has shown the best result.

(b) Tillage Experiments.

In our tillage experiments twenty different methods were tested on each of: wheat, oats, potatoes, roots and corn. Results would indicate that for wheat and oats the best results are obtained by medium early Fall plowing followed by the harrow and packer to compact the soil and start wheat growth. For roots and corn it has been found best to double disc the land in the Spring followed by harrowing before and after drilling. For potatoes it would appear that deep plowing in the Fall followed by shallow plowing in the Spring will give best results. If manure is applied the order would be reversed for this district.

(c) Crop Rotations.

This part of the work involved one hundred different rotations, with eight crops, where the same crop was grown continuously on the same piece of land and where each crop was grown after each other crop, so that effects might be determined and satisfactory rotations deduced. Up to date our reports would lead us to suggest that for best results no crop should be succeeded by one of the same species or kind. A cereal





REPORT OF THE COLLEGE OF AGRICULTURE - 1920.

crop should if possible be followed by hoed crop, corn should follow cereals, potatoes do well after corn and all crops do well after peas.

(d) Crop Improvement.

Experiments in crop management are being carried out with a view to determining to what extent the date of seeding and rate of seeding can offset the danger from early Fall frosts and at the same time maintain yield and quality. In testing for dates of seeding the following standard varieties of each kind of grain were used: Marquis Wheat; Banner Oats; O.A.C.No.21 Barley, (six rowed); Canadian Thorpe Barley, (two rowed); Alberly Blue Field Peas; Winter Rye. Our conclusions to date are as follows:

Wheat and Spring Rye - April 12 - 25.

Peas - April 15 - 25.

Oats - April 20 - 30.

Barley - April 25 - May 10.

Winter Rye - August 15 - 25.

In rates of seeding almost the same crops were used and results to date lead us to suggest the following amounts of seed of each crop per acre:

Wheat - 2 -  $2\frac{1}{2}$  bus.

Oats - 3 -  $3\frac{1}{2}$  bus.

Six-rowed Barley -  $2\frac{1}{2}$  - 3 bus.

Two-rowed Barley -  $2\frac{3}{4}$  -  $3\frac{1}{4}$  bus.

Peas -  $3\frac{1}{2}$  -  $4\frac{1}{2}$  bus.

Winter and Spring Rye - 1 -  $1\frac{1}{2}$  bus.

In wet seasons, heavier seeding might be necessary.



REPORT OF THE COLLEGE OF AGRICULTURE - 1920.

Our work on frost studies was carried on with Spring Wheat, Barley, Oats and Flax. During maturing season accurate weather records were kept and a series of samples covering this period were taken, totalling 489. These samples have yet to be subjected to germination tests, estimates of physical and chemical changes due to frost exposure while maturing will also be made.

Somewhat related to the foregoing is our experimental work to find the earliest stage of maturity at which grain crops may be cut to produce a high quality of seed. Work on this project was conducted during the past season with oats. Our results to date would indicate that oats may be cut for seed purposes at earlier stages than has been previously supposed. The importance of this is obvious.

Our tests with sunflowers would indicate that, because of their greater hardiness and ability to grow at a lower temperature during the early part of the season, sunflowers will out-yield corn.

The tests of silage with crops of corn, sunflowers, oats and peas, buckwheat, alfalfa, winter rye and sweet clover, show the suitability of all these crops for silage.

Experiments in connection with nurse crops for seeding down timothy or clover, involved 400 plots. No report can yet be made.

Crop Improvement:

The work in Crop Improvement involves the leading grain and forage crops and comprises different fields of endeavor such as introduction and testing of varieties, head selection and plant





REPORT OF THE COLLEGE OF AGRICULTURE - 1920.

selection, pure line selection, cross breeding and effectual pure seed production. Details of this work are given in an appended report but particular attention might be called to the fact that already two new introductions of peas have been made, one of which obtained highest place in the open competition at the Chicago International, and in clover we have a new strain, Altaswede, which gives excellent promise. It might be mentioned that the seed of this latter crop, produced at the University, took eighth place in the open class at Chicago. Already a high estimate can be set upon the value of this clover to agricultural Alberta. Mention might also be made of Flint Corn, evolved from Golden Bantam, which apparently possesses great possibilities as a field corn especially for the southern sections of this Province. It has been ripened for five years in succession in the Edmonton district.

Extension Work.

(a) Seed Distribution.

The Alberta Crop Improvement Association was organized, and this links up the crop improvement and breeding work with the activities of the farming communities. Over 1500 farmers are now enrolled as members of this organization. In all 1422 samples were distributed to farmers for testing. Six seed-growing centers were established in 1920 with a membership of twenty-eight, each member being supplied with enough seed to sow one acre.

(b) Survey of the Native Forage Plants in Alberta.

This survey was carried out in three ways: (1) by direct





REPORT OF THE COLLEGE OF AGRICULTURE - 1920.

survey by members of the Staff; (2) by co-operation with Boys and Girls Clubs throughout the Province; (3) through the assistance of individual farmers.

Professor Newton visited many districts and collected, identified and mounted, sixty different species of grasses and legumes from districts ranging from Spirit and Swan Rivers in the North to Bassano, Brooks and Tilley in the South.

(c) Co-operative Experiments in Potatoes.

For the purpose of this test the assistance of farmers in the Edmonton District who belonged to the Edmonton Potato Producers Association, was enlisted. The co-operative tests for the purpose of estimating comparative yield, cooking quality, and disease resistance, of eight standard potato varieties in eight different localities, were undertaken. Results of the year's work show that for relative yielding qualities, the varieties tested, stand in the following order: Irish Cobbler, Early Ohio, Wee MacGregor, Early Favorite, Carman No. 1, Prairie Flower, Up to Date, Table Talk. As to cooking quality the varieties stand as follows: Early Ohio, Irish Cobbler, Early Favorite, Wee MacGregor, Carman No. 1, Up to Date, Table Talk, Prairie Flower.

Our investigation into diseases would go to show that Scab, Rhizoctonia, Black Leg and Fusarium Wilt are present to rather a disturbing degree. A detailed report will be made later.

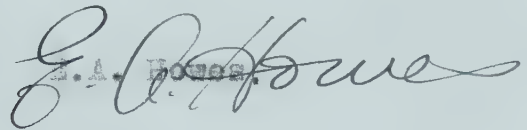
The foregoing is a brief summary of the chief lines of



REPORT OF THE COLLEGE OF AGRICULTURE - 1920.

work carried on by the Staff of the Department of Field  
Husbandry, College of Agriculture, University of Alberta.

Respectfully submitted,

  
L.A. Hogg

Dean.





A P P E N D I X      I I

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THE    REPORT    OF    THE    DEPARTMENT    OF    EXTENSION

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THE DEPARTMENT OF EXTENSION

UNIVERSITY OF ALBERTA.

Annual Report for Calendar Year ending December 31st, 1920.

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PUBLICATIONS.

The publication of the Press Bulletin, which was carried out last year with a circulation of 850, has been resumed with a circulation of practically 1000.

Several circulars dealing with the work of the Department have also been issued and particularly a bulletin on "Native Grasses" prepared by Professor Cutler and Assistant Professor Newton of the Department of Field Husbandry, has been prepared.

CONFERENCES.

The University Week for Farm Young People was organized by the Department of Extension for the week, June 14th to 19th, inclusive. Arrangements were made for those attending, to live in the University Residence. The delegates were sent at the expense of the United Farmers of Alberta, and the United Farm Women of Alberta, the programme being provided by the University. Exactly 102 delegates attended; 51 being girls and 51 boys.

A varied programme of practical agriculture, physical education, and general culture, was put on. Judging from comments made by those attending, this event, which is the second of its kind, is likely to be an annual occasion.

The Leadership Conference, for those of more mature age, was planned, but owing to difficulty in securing a suitable programme, it was postponed until another year.

Annual Report of the Board of Directors, 1911.

The following is a list of the directors, which has

remained the same since the organization of 1907, has been retained with a change of names only.

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1911.

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## EXTENSION LECTURES.

During the year 1920, 186 Extension Lectures were given. Of these 116 were given by the Director of the Department of Extension; 57 by the Assistant Director, and six by Dr. MacGibbon; four by Mr. Brown, two by Miss Montgomery, and one by Major MacRae. The approximate aggregate attendance at Extension Lectures for 1920 was 20,308, being an average of 109  $\frac{1}{2}$ .

Special attention should be called to the series of six lectures on Economics given by Dr. MacGibbon, Professor of Economics, in the city of Calgary, under the auspices of the Trades and Labor Council. These lectures were well attended and warmly appreciated by the men to whom they were given. A further course on general topics has been arranged to be given during the early months of 1921.

A large number of these engagements were at out-of-the-way places. Special attention was given during the summer and fall to a number of dates for lectures combined with educational moving pictures in some of the non-English-speaking communities. A copy of a letter received, signed by a group of teachers in the foreign colony north of Vegreville is attached. It will give some idea of the work done and the way it was appreciated.

In addition to the regular engagements undertaken as Extension work, the Assistant Director conducted in the course of the year 33 services, varying from the address on Armistice Day in Convocation Hall to services conducted in outlying districts visited in connection with the work of the Department. These are not included in the report, but if added would bring up the number of public engagements during the year to 219.

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### TRAVELLING LIBRARIES.

At the present time there is a total of 212 travelling libraries in circulation; 186 of the regular type and 26 special libraries. The aggregate circulation for the year was 14,071, and the average circulation for each exchange was 58.6. The highest circulation was 197 for a library sent to Innisfree. 339 exchanges of libraries were made and 249 communities were served. The organizations using libraries were as follows: Community organizations, 110; school districts, 31; U.F.A.'s, 54; U.F.W.A.'s 26; Women's Institutes, 7; and other organizations 21; making the above total of 249. A peculiar feature of travelling library work for the current winter has been that the demand for libraries came at a later date than usual, for example, during the first month of 1921, 50 libraries were sent out. The falling off in the closing months of 1920 as compared with the other years, is perhaps explained by two reasons; one, the late harvest in some sections and the other, the interest taken in the vote on the liquor question, which occupied the energies of many local rural organizations.

The circulation from the Open Shelf for 1920 was 3249 books, an increase of 863 or 36.5% over that of 1919. In addition to other books 955 books of plays and dialogues were sent out and 809 pamphlets on a great variety of subjects were circulated. There are at the present time approximately 2700 volumes on the Open Shelf. New books are being added constantly.





## VISUAL INSTRUCTION.

During 1920, 960 sets of lantern slides were lent from the Department of Extension. These were shown 1376 times to audiences totalling approximately 188 118,232 or an average of 90 per lecture. 160 sets of moving picture films were circulated and were shown 221 times to audiences totalling 20,672, an average attendance of 93 per exhibition. It will thus be seen that audiences totalling approximately 138,904 attended lectures or moving picture exhibitions for which the material was furnished by the Department of Extension. This does not of course include lectures given by members of the staff of the Department.

## DEBATING AND PUBLIC DISCUSSION.

During the past year the Provincial High School Debating League was re-organized, and eight schools entered. An interesting series of debates was carried through on the subjects of the "League of Nations", and "Government Ownership of Railroads", the championship being won by the Crescent Heights High School of Calgary. For the first time the plan was tried of sending judges from the University to officiate at the debates. All reports agree that this plan was a great improvement over that of having local judges.

The High School Debating League for the session 1920-21 was organized in two divisions; A Division including city schools and B Division including town and rural High Schools. In all twenty-one schools entered and the series will conclude on March 4th with the final debate at the University. The subjects for the current session are "The School Curriculum" and "The Limitation of Inheritance".





A trophy for the B Division has been presented by the Provincial Executive of the U.F.A. and generous book prizes for the debaters taking part in the final debate have been donated by His Honor Judge Taylor and Mr. A. F. Ewing, K.C.

During the year 541 package libraries for debaters were sent out; in addition to special material on a large number of subjects other than those covered either by the package libraries or by the pamphlets and bulletins sent out through the Open Shelf of the Travelling Library Division. Of the forty-six topics most in favor the following lead with the number of requests for material indicated in each case.

Consolidated Schools	36
Protection vs. Free Trade	34
Rural vs. City Life	33
Tractor vs. Horse	27
Prohibition	26
Government Ownership	25

Other subjects varied from the numbers indicated down to one, which was the total number of requests for material on Commission Government of Cities, indicating that interest in the last mentioned topic has almost died out. Taking the request for debating material as a guide the inference would be that the keenest public interest at the present time is taken in questions dealing with economics, education, and legislative devices such as Proportional Representation. There is a still increasing demand for information on subjects involving special research work, and much time of the staff of the Department is occupied in securing statistics and other desired material.





## STAFF.

I would like to pay a tribute to the zeal and efficiency of all the members of the staff of the Department of Extension. Special mention should be made of the splendid work done by Mr. Cameron, Assistant Director; Miss Montgomery, Librarian; and Mr. Brown, who has been in charge of the Visual Instruction work. The year's work has been a real pleasure because of the cordial co-operation which has been shown by the members of the Department of Extension itself, and also the members of the Faculty of the University. I would like especially to express appreciation of the co-operation of the Faculty of Agriculture, in contributing a large share to the success of the University Week for Farm Young People, as well as in supplying material for the Press Bulletin.

In conclusion it is not too much to say that the Department of Extension, and through it the University of Alberta, has never been more widely or favorably known throughout the Province than at the present time. The only limit to possible service is that laid down by staff and equipment available.

*A. E. Utterell*

DIRECTOR.





Whitford, Alberta,

18th October, 1920.

A. E. Ottewell, Esq., M.A.,  
Department of Extension,  
University of Alberta.

Dear Sir:-

After having so thoroughly enjoyed your recent visit we feel we should like to express our appreciation of the time and the service you have given our various schools. We realize that it is not easy for you, with so many calls upon your time, to give seven successive entertainments in a Ruthenian colony.

However, we are very much pleased that you decided to entertain us in this way, as it means so much in districts where the majority of the people, and especially the women and children have never seen anything outside their own particular community. The Moving Pictures you showed, including scenes from the British Navy, Canadian Rockies, Niagara Falls, History of Transportation, Volcanoes, etc. etc. etc. opened up a new world to these people, and also gave us a point of contact which will be of great assistance to us as teachers in explaining to our scholars such things as the sea, steamships, railway trains, mountains, water falls, etc. etc.

We only wish steps could be taken to carry on a regular series of such expositions, as this would seem one of the greatest possible means of educating these non-English speaking people.

Again thanking you for the most enjoyable and instructive gatherings made possible by your visit, and trusting this will be but the beginning of many more such meetings in the future,

We are,

Yours truly,

Sid Bainbridge -- Desjarlais, Alberta.  
Beatrice Emil Duke -- Boroweh School.  
Sara G. Mosher -- Shandro School.  
Hughson Bros. per W.S.H.  
A. B. Bennett -- Soda Lake School.  
Lillie Duke -- Pruth S.D.  
A. C. Francis -- Boian Nfarea S.D.



A P P E N D I X    III

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THE REPORT OF THE PROVINCIAL LABORATORY

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# REPORT OF THE DIRECTOR OF THE PROVINCIAL LABORATORY

1920.

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Dr. H. M. Tory,  
President, University of Alberta,  
EDMONTON SOUTH. ALTA.

Sir:

I have the honour to submit the report of the work done in the Provincial Laboratory during the year 1920:-

## STAFF

In June Mr. H. M. Vango joined the staff as a full time assistant in relation to the Wassermann reaction and Pathological work.

Mr. Arthur J. Walker was employed during the summer months as a full time assistant in relation to the other work of the laboratory and to fill in during the absence of members of the staff on holidays. With the opening of the University Session in September Mr. Walker was continued as a part time assistant.

All the staff have given loyal and valuable support during the past year.

## LABORATORY EXAMINATIONS:

Table No. 1 gives in some detail the examinations performed in the laboratory during the year under consideration.





TABLE NO. 1

	Total No. of Specimens 1917.	Total No. of Specimens 1918.	Total Increase.
COMMUNICABLE DISEASES:			
Sputum	298	392	194.
Diphtheria	479	1110	631.
Typhoid Fever	109	175	66.
Bacteriological	350	447	97.
WATERS:			
Chemical	159	224	65.
Bacteriological	40	35	
MILK:			
Chemical	7	27	20.
MOTHER'S MILK:	55	105	50.
MISCELLANEOUS EXAMINATIONS:	99	298	199.
URINALYSIS AND MICROSCOPY OF URINE:	102	408	306.
BLOOD FOR THE WASSERMANN REACTION:	1040	2904	1864.
PATHOLOGICAL MATERIAL:	65	233	168.
FOODS	12	25	13.
BUTTER	---	23	23.
	2,815	6,406	3,596



It will be observed that the work done in the laboratory in the year under consideration is double that of the previous year with an increase of 3,591 examinations.

The work of the laboratory, then, during the past year has been much heavier than at any previous time. A large increase will be noted in the number of blood tests performed for the diagnosis of Syphilis and Typhoid Fever; Pathological work has more than trebled and, on account of the recent prevalence of Diphtheria, a very large increase may be noted in the bacteriological examination for the diagnosis of that disease.

It may be stated that the work of the laboratory has been somewhat hampered during the past year owing to lack of space. Our present quarters are much too cramped, and it is with satisfaction that we look forward to moving into the new Medical Building, where very excellent accommodation has been provided for us. It is urged that we may be permitted to so equip these new quarters that the laboratory can be favorably compared with any similar laboratory in Canada.

It is also urged that the appointment of an Assistant Bacteriologist should be considered, the appointee to be used as an assistant in the laboratory and as an Epidemiologist. It is thought that a small laboratory equipment might be got together and that, in the event of epidemic disease appearing

It will be observed that the work done in the

laboratory in the year ending 1921 is a little more than

the previous year with an increase of 2,221 examinations.

The work of the laboratory, then, during the year

has been much heavier than at any previous time. A

large increase which is noted in the number of blood counts per-

formed for the diagnosis of typhoid and typhus fever; and

of other work has been more than trebled, and, on account of the re-

cent prevalence of diphtheria, a very large increase may be

noted in the bacteriological examination for the diagnosis of

that disease.

It may be stated that the work of the laboratory has

been somewhat hampered during the past year owing to lack of

space. Our present quarters are much too cramped, and it is

with satisfaction that we look forward to moving into the new

Medical Building, where very excellent accommodation has been

provided for us. It is hoped that we may be permitted to do

early these new quarters that the laboratory can be favorably

confronted with any similar laboratory in Canada.

It is also hoped that the appointment of an Assistant

Bacteriologist should be considered, the appointment to be

made as an Assistant in the laboratory and as an epidemiologist.

It is thought that a small laboratory equipment might be got

together and that, in the event of epidemic disease appearing



at any point, the Assistant Bacteriologist could be sent there suitably equipped to investigate the epidemic in a thorough manner on the ground.

We think such an arrangement would greatly strengthen our methods for the control of certain infectious diseases in the Province, and would add to our knowledge of the prevalence and spread of certain diseases in the Province.

DISTRIBUTION OF OUTFITS: PREPARATION OF VACCINE. ETC.

Table No. 11 sets forth the work accomplished with reference to outfits and supplies issued by the laboratory.

TABLE NO. II

		OUTFITS	MEDIA	VACCINE
WATER CONTAINERS:	Bacteriological	444		
	Chemical	187		
SPECIAL CONTAINERS:		1,676		
BLOOD CONTAINERS:		4,763		
TYPHOID VACCINE:				2,850 c.c.
INFLUENZA VACCINE:				2,360 c.c.
MEDIA SUPPLIED TO ROYAL ALEX. HOSPITAL			513 tubes	
TOTAL		7,070	513 "	5,210 c.c.

of my point, the Assistant Pathologist could be sent there  
and being equipped to investigate the animals in a thorough  
manner on the ground.

We think even an environment would greatly strengthen  
our methods for the control of certain infectious diseases in  
the Province, and would add to our knowledge of the prevalence  
and spread of certain diseases in the Province.

Table No. II sets forth the work accomplished with  
reference to snails and supplies issued by the Laboratory.

TABLE NO. II		WORK ACCOMPLISHED WITH REFERENCE TO SNAILS AND SUPPLIES ISSUED BY THE LABORATORY	
ITEMS		QUANTITIES	
Snails		Issued	
Total		157	157
Snails		Issued	
Total		1,010	1,010
Snails		Issued	
Total		1,010	1,010
Snails		Issued	
Total		1,010	1,010
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Snails		Issued	
Total		1,010	1,010

TABLE NO. III

SPECIMENS EXAMINED FOR THE DIAGNOSIS OF COMMUNICABLE DISEASES.

DISEASE:	No. of Speci- mens	No. of		Mth.	Specimens received		Typ'a	TOTAL
		Physicians	P. O's		Spu'm	Diph.		
PULMONARY TUBERCULOSIS	70	322		Jan.	33	23	8	64
				Feb.	25	38	1	64
DIPHTHERIA	205	905		Mar.	26	32	9	87
				Apr.	40	54	12	106
				May.	37	85	11	133
				June.	35	69	20	124
				July.	27	99	17	143
				Aug.	32	76	25	133
TYPHOID FEVER	35	140	221	Sept.	25	107	20	152
				Oct.	26	208	27	261
				Nov.	37	150	14	201
				Dec.	29	169	11	209
TOTAL	310	1,367	221	107	392	1,110	175	1,677

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TABLE NO. IV

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WASSERMANN REACTIONS FOR THE DIAGNOSIS OF SYPHILIS

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Bloods Received	Bloods Examined	Bloods show- ing Positive Reaction	Bloods show- Negative Reaction	Bloods un- suitable for Test
3,119	2,904			
		723	2,181	
				215

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1944

UNITED STATES DEPARTMENT OF AGRICULTURE

1944	1943	1942	1941	1940
1944	1943	1942	1941	1940
1944	1943	1942	1941	1940

1944

1944

With reference to the above Table it may be said the laboratory has found it necessary during the year to add largely to the stock of water containers in order to meet the requirements of the Province. Considerable expense has been incurred in relation to the large number of blood containers required for the Wassermann reaction. It will be observed that the quantities of vaccine issued this year have decreased. The general public are still unacquainted with the protection afforded by this procedure against Typhoid Fever, and the fall in the amount of material supplied is due to the demobilization of the army.

#### TABLE NO. III

It will be observed by reference to this Table that 392 sputa have been examined for the presence of the bacillus of tuberculosis, 1110 cultures have been examined for the presence of the diphtheria bacillus, and 175 bloods have been examined for the diagnosis of typhoid fever. 221 physicians have availed themselves of the use of the laboratory for the purpose of these examinations as against 171 physicians last year. The material has come from 107 localities as compared with 91 localities last year.

#### TABLE NO. IV

The Wassermann work of the laboratory has trebled during the year. This work has been conducted under the

With reference to the above Table it may be said

the Laboratory has found it necessary during the year to add largely to the stock of water containers in order to meet the requirements of the Province. Considerable expense has been

incurred in relation to the large number of blood containers

required for the Laboratory's collection. It will be observed

that the quantities of water used this year have been

the general public are still unacquainted with the protection

afforded by this procedure against Typhoid Fever, and the fall

in the amount of material supplied is due to the despatch

of the army.

#### TABLE III.

It will be observed by reference to this Table that

392 acute have been examined for the presence of the bacillus

of tubercle, 1110 cultures have been examined for the pres-

ence of the albuginea bacillus, and 175 bloods have been exam-

ined for the diagnosis of typhoid fever. 283 pharynges have

examined themselves of the use of the Laboratory for the purpose

of those examinations an amount 171 physicians last year.

The material has come from 107 localities as compared with 21

localities last year.

#### TABLE IV.

The Laboratory work of the Laboratory has stopped

during the year. This work has been conducted under the

direct supervision of Dr. J. J. Ower and has been satisfactory in every way. I desire to emphasise the fact that this work is being done in a very careful and thorough manner.

#### PATHOLOGICAL HISTOLOGICAL DIAGNOSIS

Dr. J. J. Ower has also been responsible for the microscopic examination of tissue submitted for Histological diagnosis. During the year 233 specimens have been examined, an increase of 168 over last year. This work is of great value both to the Province and to the general public. In this work and in the Wassermann work Dr. Ower has been ably assisted by Mr. H. M. Vango.

#### WATER WORK:

During the year 447 samples of water have been examined Bacteriologically and 224 have been examined Chemically, an increase of 97 over last year in the first case and 65 over last year in the second case. This laboratory is gradually accumulating data and records with reference to the quality, both Bacteriological and Chemical, of waters obtained from various sources throughout the Province. During the year special investigation was made of the quality of the water supplied in the Eastern Section of the Irrigation Block of the Canadian Pacific Railway. Here, dealing with a surface



direct investigation of the water and has been made in  
history in every way. I desire to emphasize the fact that the  
work is being done in a very careful and thorough manner.

Dr. J. C. Gower has been responsible for the  
microscopic examination of the water exhibited for the  
diagnosis. During the year 1913 specimens have been examined  
an increase of 108 over last year. This work is of great  
value both to the Province and to the general public. In  
this work and in the bacteriological work Dr. Gower has been ably  
assisted by Mr. H. M. Vainio.

During the year 1913, 100,000 gallons of water have been ex-  
amined bacteriologically and 244 have been examined chemically  
an increase of 97 over last year in the first case and 95 over  
last year in the second case. This increase is probably  
due to the fact that the records with reference to the quality  
both bacteriological and chemical, of waters obtained from  
various sources throughout the Province. During the year  
special investigation was made of the quality of the water  
supplied in the eastern section of the irrigation block of  
the Canadian Pacific Railway. Here, dealing with a surface



water conveyed in dug surface channels, we have been able to show that water drawn from a more or less contaminated source is suitable in many instances for domestic use within the area, as the result of sedimentation and natural purification. It is hoped that the water work may be further increased and extended during the coming year.

#### EXAMINATION OF COW'S MILK :

35 samples of cow's milk were examined bacteriologically, and only 27 chemically during the year. It is felt that the public are not using the laboratory as it should be for the examination of this most important food.

#### EXAMINATION OF MOTHER'S MILK.

105 samples of mother's milk have been examined during the year, an increase of 50 over the number examined last year. This examination is, of course, a simple examination for the estimation of the quantity of fat present, a matter however which is of considerable importance in the nourishment of the infant.

#### EXAMINATION OF SLIDES FOR GONORRHOEA:

408 examinations have been made in connection with the diagnosis of gonorrhoea, an increase of 306 over last year. As stated in the report of last year this examination, while satisfactory in positive results, is not so very

water conveyed in the various channels, we have been able to show that water from these or less contaminated source is available in many instances for domestic use with- in the area, as the result of sedimentation and natural puri- fication. It is hoped that the water will be further improved and extended during the coming year.

#### WATER SUPPLY

53 samples of cow's milk were examined bacteri- ally, and only 17 showed signs of being the best. It is felt that the public are not getting the best milk in it should be for the examination of this most important food.

107 samples of cow's milk have been examined during the year, an increase of 54 over the number examined last year. This examination is, of course, a simple exam- ination for the detection of the quantity of fat present, a matter however which is of considerable importance in the nourishment of the infant.

408 examinations have been made in connection with the diagnosis of gonorrhea, an increase of 500 over last year. An increase in the report of last year this examina- tion, while satisfactory in positive results, is not so very

reliable with negative findings. The complement fixation test mentioned in last year's report for the purpose of the diagnosis of gonorrhoea is not, as yet, in the stage of reliability and has not, therefore, been used in this laboratory during the past year.

MISCELLANEOUS EXAMINATIONS:

298 miscellaneous examinations have been performed, an increase of 199 over last year. These examinations have been very varied in their nature. Some of them of a Medico-Legal nature and others purely clinical in their application.

The whole respectfully submitted.

I have the honour to be

Sir,

Your obedient servant,

DIRECTOR.

SEE APPENDIX

reliable with negative findings. The statement that it  
that mentioned in last year's report for the purpose of the  
diagnosis of gonorrhea is not, as yet, in the hands of re-  
liability and has not, therefore, been used in this labor-  
tory during the past year.

200 miscellaneous examinations have been performed,  
an increase of 10% over last year. These examinations have  
been very varied in their nature. Some of them of a routine  
local nature and others rather original in their application.  
The whole range of clinical medicine.  
I have the honor to be

Sir,

## APPENDIX

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### ESTIMATED

COMMERCIAL VALUE OF WORK IF MINIMUM CHARGES WERE MADE.

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MATERIAL	NO. OF	PRICE PER SAMPLE	TOTAL
Sputa	392	\$ 2.00	784.00
Diphtheria	1,110	2.00	2,220.00
Typhoid Fever	175	2.00	350.00
Waters	671	15.00	10,065.00
Milks	62	5.00	310.00
Mother's Milk	105	2.00	210.00
Miscellaneous	298	5.00	1,490.00
Gonorrhoea	408	2.00	816.00
Wassermann Test	2,904	5.00	14,520.00
Pathological	233	5.00	1,165.00
Foods	25	5.00	125.00
Butter	23	5.00	115.00
TOTAL		\$	32,170.00

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A P P E N D I X    I V

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THE REPORT OF THE INDUSTRIAL LABORATORY

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## ANNUAL REPORT OF THE INDUSTRIAL LABORATORY

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I beg to report as follows regarding the work of the Industrial Laboratories and the work of the Provincial Analyst for the year 1920.

### Samples Analysed and Tested

Alum mineral	6
Ashes	1
Bituminous Sand	4
Butter	23
Cattle Feed	7
Cloth	3
Coal	328
Coke	2
Concrete- analysis as to failure	4
Core rock-McMurray Well	10
Creosote	4
Drugs- Morphine, cocaine -	71
Opium	19
Miscellaneous	20
Extracts	6
Embalming fluid	2
Flue dust	2
Formaldehyde	3
Fertilizer	5
Gasoline	4
Gopher poison	1
Gas	6
Iron & Steel	35
Iron Ore	6
Liquors- Beer, whiskey, brandy, mash, rum, etc.	614
Lubricants	6
Medicine	18
Milk	37
Molasses	6
Mica	1
Miscellaneous	37
Ores, rock, etc.	79
Oleomargarine	1
Poison examinations-internal organs, poisoned meat, grain, etc.	108
Petroleum & other oils,	31
Patent medicines	19
Perfumes	4
Paint	1





Solder	3
Saline deposits	19
Saline water	9
Soil	2
Water- Sanitary and Boiler	247
Cement, concrete, sand, gravel, stone, etc. valuation tests for contractors on buildings -	560

Besides the above I was required to give expert evidence in many court cases and to give advice to various government departments, manufacturers, prospectors and others.

Respectfully submitted,

*James G. Kilsø*

Director, Industrial Laboratories,  
Provincial Analyst.



APPENDIX V

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PUBLICATIONS DONE BY MEMBERS OF THE STAFF

OF THE

UNIVERSITY OF ALBERTA

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Department of Anatomy-

Work published by Dr. D. G. Revell, Professor of Anatomy :

"The Pancreatic Ducts in the Dog", (with 14 text figures) - The American Journal of Anatomy, vol I, No 4, September, 1902.

"A Laboratory Manual of Human Anatomy", illustrated with 298 figures, (in collaboration with Llewellys F. Barker and Dean Detcott Lewis) J. B. Lippincott Company, 1904.

"Health: A Treatise of Health and Disease", The Medical Publishing Company, Chicago, 1907.

"Typhoid Fever", - Western Canada Medical Journal, Nov. 1908.

"Functions of a Public Health Laboratory"- American Journal of Public Hygiene, Vol XX, No 4, November 1910.

"Water Analysis and the Public Health"- Western Municipal News, February 1911.





Department of Animal Husbandry

Work published by A. A. Dowell, Professor of  
Animal Husbandry and J. E. Lattimer, Assistant Professor of  
Animal Husbandry:-

By A. A. Dowell :-

Circular 1- "Winter Rations for Brood Sows", covering 1917 and  
1918 experiments- by A. A. Dowell.

This material has been published in all leading agricultural  
journals in Western Canada.

"Winter Rations for Breeding Ewes"-report on 1919-1920  
experiments- by A. A. Dowell and G. L. Flack. Published  
by- Grain Growers Guide, Winnipeg.; Nor' West Farmer, Winnipeg;  
Farmers Advocate, Winnipeg; Farm & Ranch Review, Calgary;  
Agricultural Alberta, Edmonton; Manitoba Free Press,  
Winnipeg; during the fall of 1920.

"Breeding Ewe Lambs"- report of 1919-1920 experiments;  
published by the same papers as above, also in the Farmers  
Magazine, Toronto, during the summer of 1920.

"Summer Feeding Pigs"- report of 1919 experiments, by A. A.  
Dowell and J. E. Lattimer- appeared during the early summer  
of 1920 in the farm papers indicated under number two above.



Article: "Livestock Possibilities in Alberta"- published by  
Agricultural Alberta, Edmonton, June, 1920.

Several brief articles contributed to the University of Alberta  
Press Bulletin.

Mailed to all Western and several Eastern Canadian Agricultural  
Journals, as well as to the Breeders Gazette, 542 South Dearborn St.,  
Chicago; Wallaces Farmer, Des Moines; Hereford Journal, Kansas City;  
Aberdeen Angus Journal, Webster City : statements in detail covering:-

- (a) Outline of Alberta steer exhibit at the 1920 International.
- (b) Method of Feeding show steers.
- (c) Individual gains of steers month by month.
- (d) Winnings at Chicago and Guelph.

By J. E. Lattimer, Assistant Professor of Animal Husbandry.

Brief articles on current agricultural topics contributed to  
the Farmers Advocate, London, and the Farmers Magazine, Toronto.

"The Returned Soldier for the Land"- Farmers Magazine, Toronto, August,  
1918.

"Unemployment"- Farmers Magazine, Toronto, June, 1919.

"Mobocracy"- Farmers Magazine, July, 1919.





Department of Bacteriology

Publications by Dr. A. C. Rankin, Professor of  
Bacteriology and Dean of the Faculty of Medicine:

"Observation on the Effects of Fasting upon the Opsonic Power  
of the Blood towards *Staphylococcus Aureus*". -Proceedings  
of the Society of Experimental Biology and Medicine- 1907,  
#4, p 81-83.

"The Effects of Anesthesia on the Opsonic Index."-Montreal  
Medical Journal, vol XXXVII, #1, Jan. 1908.

"The Germicidal Action of Metals and its Relation to the  
Production of Peroxide of Hydrogen." -Proceedings of the  
Royal Society- B- Vol 92, 1910.

Studies on the Cause of Beri Beri in Siam( with Dra. Hyatt and  
Carthow) - Siamese Government, 1913.

"Intermittent Fever of Obscure Origin Occurring Among British  
Soldiers in France. The so-called "Trench Fever". (with Dr. Hunt)  
Lancet, No XXI of vol. II; No. 4815, Vol. CLXXIX, Nov. 1915-p 1133.

"Malaria in France "- Lancet- 1916.



Department of Biology

Work published by F. J. Lewis, Professor of  
Biology, Miss G. M. Tuttle and Miss M. F. Rivett.

By Dr. F. J. Lewis-

The Action of Light on Mesocarpus. Annals of Botany, Sept., 1898.

On an Irregular Endodermis in the Roots of Ruscus. Annals of Botany,  
January, 1900.

Botanical Survey of the Basins of the Rivers, Eden, Tees, Tyne and  
Wear. British Association Reports, 1903.

Geographical Distribution of the Vegetation of the Basins of the  
Rivers, Eden, Tees, Tyne and Wear. Part I, 30 pp., 5 plates and map.  
Geographical Journal, August, 1904.  
(Cuthbert Peak Award of the Royal Geographical Society, London,  
for this work, 1905 )

Moorland Plant Associations. Nature, January 11, 1905.

Interglacial and Postglacial Plant Remains in the Peat of the  
Cross Fell District. British Association Reports, Section K, 1904.

The Plant Remains in the Scottish Peat Mosses: The Southern  
Uplands. Part I, pp. 24, diagrams and 6 plates. Transactions  
Royal Society Edinburgh, Vol. XLI, Pt. III, No 28 .

The History of the Scottish Peat Mosses and their Relation to  
the Glacial Period. Scottish Geographical Magazine, May, 1906.

The Plant Remains in the Scottish Peat Mosses. The Scottish  
Highlands, Part II, pp. 26 , diagrams and 5 plates. Transactions  
Royal Society Edinburgh, Vol. XLV, Pt. II, No 13.

The Peat Moss Deposits in the Cross Fell, Caithness and Isle  
of Man Districts. British Association Reports, 1907.

The Plant Remains in the Scottish Peat Mosses, the Scottish  
Highlands and Shetland Islands, Part III, 37 pp., map and 4 plates.  
Transactions Royal Society Edinburgh, Vol. XLVI, Pt. I, No. 2

The Sequence of Plant Remains in British Peat Mosses. Science  
Progress, October, 1907.





Report of the Committee appointed to examine the Sequence of Plant Remains in the Peat of Stainmore and Iceland. British Association Reports, 1908.

On a Peat Bed Intercalated with Boulder Clay Near Airdrie,-  
C. T. Clough and F. J. Lewis. Summary of Progress of the Geological Survey, 1907.

The Changes in the Vegetation of British Peat Mosses since the Pleistocene Period. Proceedings of Liverpool Geological Association, 1907.

The Plant Remains in the Scottish Peat Mosses with an Appendix on the Icelandic Peat Deposits. Part IV, 41 pp., 3 diagrams and 5 plates. Transactions of the Royal Society, Edinburgh, Vol. XLVII, Part IV (No 26). (Neill Gold Medal of Royal Society, Edinburgh, awarded for this work, 1910.)

Article in "Types of British Vegetation" by A.G. Tansley. Cambridge University Press, 1911.

On the Forest Stages represented in the Peat Deposits of the British Isles. British Association Reports, 1911.

On the Correlation of Successive Strata in the Scottish Peat Deposits. Scottish Geographical Magazine, 1912.

On a Late Glacial Stage in the Valley of the River Lee subsequent to the epoch of River Drift man. By S. Hazzledene Warren with Reports on the Flowering Plants by F. J. Lewis. Quart. Journ. Geol. Society, London, Vol. LXVIII, pp. 213-251 and pls. XV-XVII.

History of the Scottish Peat Mosses. Journal of the Climbers' Club, December, 1906.

On the Internodes of Calamites. Journal Linnean Society, London, Vol. XL, 1912.

On Induced Variations in the Osmotic Pressure and the Sodium Chloride Content of the Leaves of Non-Halophytes, New Phytologist, Vol. XI, 1912.

Vegetation Distribution in the Rocky Mountains Park. Canadian Alpine Journal, 1917.

Osmotic Properties of Plant Cells at Low Temperatures, -jointly with Miss Tuttle. Annals of Botany, Vol. 34, 1920.

Types of Vegetation in the Canadian Rocky Mountains. British Association Reports, Section K, 1920 .

The Physical Organization of Cells during Seasonal Changes in Reserve Food Material. British Association Reports, Section K, 1920.





By Gwynethe M. Tuttle, M. Sc.-

Induced Changes in Reserve Materials in Evergreen

Herbaceous Leaves. Annals of Botany, Vol. XXVIII, April, 1919.

On the Nature of Reserve Food Materials in some Northern  
Alberta Plants during Winter. Accepted for publication  
in Botanical Gazette.

Osmotic Properties of some Plant Cells at Low Temperatures.

Jointly with Dr. Lewis.

By M. F. Rivett, B.Sc. -

The Structure of the Sytoplasm in the Leaves of *Alicularia*  
*scalaris*. Annals of Botany, Vol. CXXVI, 1918.

The Anatomy of *Rhododendron ponticum* and *Ilex Aquifolium*  
in relation to Specific Conductivity. Annals of Botany,  
Vol. CXXXVI, 1920.



## Department of Chemistry

Work published by A.L.F. Lehmann, B.S.A., Ph.D., Professor  
of Chemistry:-

"Ueber ein Dibenzol-diphenyl- butadien und seine reduction  
bis zum Tertraphenyl-benzol" ,page 195 vol. 302 Annalen (1898).

A series of experiments on the growth and composition of sugar  
cane and the manufacture of sugar in the State of Mysore. The  
work covers a period of nine years and is chiefly published  
in the reports of the Mysore Department of Agriculture for the  
years 1901 to 1909 being the second to the ninth annual report.

The composition and availability of South Indian fertilizers.  
A work carried on concurrently with the above and published  
in the same reports. Both Plot and Pot experiments were  
used in this work.

The standardisation of field plots for agricultural experiments  
and the necessity for such standardisation, page 2, 7th report  
and page 1, 9th report Mysore Department of Agriculture.

Movement of Soil water and the effect of cultivation on its  
preservation, page 26, 7th report and page 25, 8th report,  
Mysore Department of Agriculture.

Irrigation waters- page 51, 4th report, Mysore Department of  
Agriculture.

Determination of the Quality of Coffee by chemical means-  
page 9, 4th report; page 17, 5th report and page 22, 9th report,  
Mysore Department of Agriculture.

An inquiry in some of the Grease Oils of Southern India-  
page 23, 4th report, Mysore Department of Agriculture.

Methods for the Quantitative estimation of Inorganic  
Phosphorus in Vegetable and Animal substances - Ohio Agricultural  
Experiment Station Bulletin 215.





By Osman J. Walker, Ph.D., Assistant Professor of Chemistry-

The Effect of Certain Organic Acceleration on the Vulcanization of Rubber.

The Isolation and Identification of the Resins of Raw and Oxidized Rubber. (In collaboration with Dr. R. F. Rattan and Dr. G. S. Whitby ).

By A. D. Cowper, Assistant Professor of Chemistry-

The Variation of Intensity of Spectrum Lines of Gases with Pressure at Constant Electrical Excitation (Banded Spectrum of Nitrogen )- Nature 1908.

The Compressibility of Amorphous Material in the Interval of Softening with Heat (with Professor Tamman)- 2 edit. Phys. Chem. 1909, 68.

Munitions Inventions Department, British Ministry of Munitions; Haber Process, Ammonia Synthesis, Laboratory Reports (subsequently to be published in large volume).

No. 10 Interim Report on the Purification of Hydrogen from Carbon Monoxide, June 1917.

No 12: Supplementary Report on the Purification of Hydrogen from Carbon Monoxide, June, 1917.

No. 13: Final Report on the Influence of Methane on the Catalytic Formation of Ammonia by Synthesis, July 1917.

No. 18 : Notes on the Catalytic Activity of certain Ferrocyanides on the Synthesis of Ammonia, Oct. 1917.

No 56: Supplementary Report on the Elimination of Carbon Monoxide from Hydrogen by the Carbate Process, March, 1918.

No. 98: Supplementary Report on the Removal of Carbon Monoxide from Hydrogen.



Department of Civil Engineering

Work published by I. F. Morrison, B.Sc., Associate

Professor of Civil Engineering-

A Method of Figuring Reactions for Continuous Beams, Canadian Engineer, Vol. 27, July 16, 1914.

Possible Faults in our Methods of Teaching- The Canadian Engineer, vol 27, September 17, 1914.

A Graphical Method for Beam Deflections-The Canadian Engineer, vol. 27, October 8, 1914.

Preparation of Specifications for Concrete- The Canadian Engineer, vol 35, July 24, 1919.

Bond Stresses in Reinforced Concrete Footings- The Canadian Engineer, Vol. 39, December 23, 1920.



Department of Classics

Publications by Dr. W. H. Alexander, Professor of  
Classics and Dr. Geneva Misener, Associate Professor of Classics:

By Dr. Alexander:

"Some Textual Criticisms on the Eighth Book  
of the De Vita Caesarum of Suetonius". -University of California  
Publications in Classical Philology, Vol. 2, No. 1, Berkeley, 1908.

By Dr. Misener:

The meaning of  $\epsilon\iota\delta\alpha\iota$  . Dissertation.  
University of Chicago, 1904, pp 75, published by  
Friedenwald Press, Baltimore.

The  $\epsilon\iota\delta\alpha\iota$  wishes:  
Classical Philology, vol III, p 137-144, 1908.

Book Review of Xenophon Cyropaedia, Translated by  
Walter Miller, (Loeb Classical Library) published by  
Classical Philology, vol XI, pp 238-240, 1916.

Book Review of Studien zum Antiken Storglauben,  
von Erwin Pfeiffe-Steinlein. Heft 11 (Leipzig und Berlin),  
published by Classical Philology, vol XII, p 315-322, 1917.

Book Review of The Geography of Strabo, vol. 1, Translated  
by H. L. Jones (Loeb Classical Library), published by  
Classical Philology, vol XII, p 446-448, 1917.

Book Review of Dio Cassius, Translated by Earnest  
Cary, vol. 1-VI (Loeb Classical Library) published  
by Classical Philology, vol. XIII, p 420, 1918.

Book Review: Horace and His Age, by J. F. D'Alton,  
(Longmans, Green & Co. ), published by Classical  
Philology, vol XIII, p 315-317, 1918.





## Department of English

List of publications by E. K. Broadus, Professor of English

### Literature:

### Books:

Dickens, A Christmas Carol, etc., Lake English Classics, Scott, Foreman and Co., 1904.

Stevenson, Treasure Island, Lake English Classics, Scott, Foreman and Co., 1904.

English Prose from Bacon to Hardy (with R. K. Gordon), Oxford University Press, 1918.

Books and Ideals, Oxford University Press, 1920.

The Laureateship, a Study of the Office of Poet Laureate in England, The Clarendon Press, 1920.

### Articles :

The Preface as Literature, Atlantic Monthly, 1907.

Addison as a Literary Critic, University Magazine, 1909.

At the End of the Line, Atlantic Monthly, 1910 (Reprinted as a model of English style in "English Composition in Theory and Practice" (MacMillan, 1912).

Addison's Influence on the Development of Interest in Folk Poetry in the Eighteenth Century, Modern Philology, 1910.

The Bible and English Literature, The Nation, N.Y., 1912.

Medicine and English Literature, Canadian Medical Assoc. Journal, 1912.

William Caxton, University Magazine, 1913.

The Poet Laureateship, University Magazine, 1913.

The Date of Dryden's Appointment as Laureate, The Nation, N.Y., 1914.

Poet Laureate and Historiographer Royal, The Nation, N.Y., 1914.

English Poetry of War, University Magazine, 1915.

The Crowning of Statius, The Nation, N. Y., 1915.

The Poetry of Robert Bridges, University Magazine, 1916.



Publications by R. K. Gordon, Associate Professor of English Literature,-

Books:

English Prose from Bacon to Hardy (with E. K. Broadus) Oxford Press, 1918.

Translations from Old English Poetry (completed and accepted for publication in Everyman's Library but not yet issued owing to war conditions ),Dent Series, Dent.

Short Stories adapted from the works of Sir Walter Scott, with an Introduction ,completed and to be published in the King's Treasures Series, Dent.

John Galt, University of Toronto Press, 1920.

Articles:

War and Poetry, Canadian Magazine, 1915.

Plague and Pestilence, Canadian Magazine, 1919.





Published Sketches by P A. W. Wallace:-

"Up the Waverly Road"- A travel article,describing the Selkirks- Rod and Gun,March,1913.

"Mount Robson: A Canadian Giant"- A narrative of attempts made to climb the mountain.- Canadian Magazine, July, 1914.

"Through Brittany in War Time", Travel article.-Canadian Magazine,April,1915.

"The Canadian Alpine Journal", Book review- University Magazine, 1916.

"A Night on the Kicking Horse", Short story- Canadian Courier,1916.

"A Triangle on the Diamond", Short story, All-Story Magazine, 1916.

"The Badgerboro Picture Show ", Short story, Canadian Magazine,1916.

"A Mountain for the Hall ", Short story- Rod and Gun,1916.

"A Bit of Selkirk Bash ", Travel sketch, Rod and Gun,1916.

"The Jane in the Case", Short story- Canadian Magazine,June,1920.

"Canada from Coast to Coast",Travel sketches (series of twenty)  
Edmonton Journal.

"Tapping the Peace River ", Feature article on the E.D. and B. C. Railway,- Canadian Courier,Aug,1920.



Department of Field Husbandry-

Publications by G. E. Cutler, Professor of Field Husbandry:

The Control of Rust- The Agricultural Gazette of Canada,  
vol. 5, No. 10, 1918.

Winter Rye- The Agricultural Gazette of Canada, vol. 7,  
No 10, 1920.

Alberta Crop Improvement Association- The Agricultural  
Gazette of Canada, vol. 7, No 10, 1920.

A Dwarf Wheat- Paper-  
Journal of American Society of Agronomy,  
Vol. 2, No. 2-1918.

Suitable Varieties of Grains for Alberta- Field Husbandry  
Circular #1, Published by the Department of Extension.

The Seed- Seed Treatment and Seeding- Field Husbandry  
Circular #2, Published by the Department of Agriculture.

Soil Cultivation - Field Husbandry Circular #3- Published  
by the Department of Agriculture.

Winter Rye- Field Husbandry Circular #4- Published by the  
Department of Agriculture.

Native Grasses of Alberta- Part I.- Extension Circular #3-  
Published by the Department of Extension.

Publications by R. Newton, Assistant Professor of Field Husbandry-

Native Grasses of Alberta- Part II.  
Extension Circular #3- Published by Department of Extension.

The Quality of Silage Produced in Barrels- Journal of  
American Society of Agronomy, Vol. 13, No. 1, 1921.



Publications by J. R. Fryer, Assistant Professor of Field Husbandry-

Weed Seeds in Farm Lands- Agricultural Gazette of Canada,  
Vol. 2, No. 1.

Seed Testing at the Calgary Laboratory- Agricultural  
Gazette of Canada, Vol. 5., No. 11.

Germination of Oats Exposed to Varying Degrees of Frost  
at Different Stages of Maturity- Agricultural Gazette  
of Canada, Vol. 6, No. 4.





## Department of Geology

### Publications by Dr. John A. Allan, Professor of Geology:

"Saltspring Island & East Coast of Vancouver Island",  
Geological Survey of Canada, Summary Report, 1909, p. 98.

"Ice River District, British Columbia "  
Geological Survey Canada, Summary Report 1910, p. 135.

"Geology of Field Map-Area, Yoho Park, B.C. "  
Geological Survey Canada, Summary Report, 1911, p. 175.

"The Stratigraphy and Structure of the Ice River District  
and the Vicinity of Field, British Columbia", 1912.

"Rocky Mountain Section between Banff, Alberta and Golden  
British Columbia, along the Canadian Pacific Railway".  
Geological Survey Canada, Summary Report 1912, p. 165 .

"British Columbia", Journal of Geography, December 1912.

Geological Map- 17A (part)- Southern Vancouver Island, B.C., 1912.

"Rocky Mountains: Banffhead, Alberta to Golden, British Columbia  
(Stratigraphy )", 12th International Geological Congress,  
Guide Book No. 8, Part 2, 1913, p. 157-186 .

"Annotated Guide, Banffhead, Alta. to Golden, B. C.", - 12th International  
Geological Congress, - Guide Book No 8, Part 2, 1913, -186-201.

"Structure Section across the Rock Mountains near the main  
line of the Canadian Pacific Railway, between the Cascade Trough  
and the Columbia Valley," Geological Survey, 1913.

Geological Map : Logan-Field District, Geological Survey, 1913.

Geological Map: Banff, Alta., Geological Survey, 1913.

"Rocky Mountains Park, Alberta", Geological Survey Canada,  
Summary Report, 1914, p. 42.

"Simpson Pass to Kamnashia, Rocky Mountains Park, Alberta",  
Geological Survey Canada, Summary Report, 1915, p. 100 .

"National Parks in the Canadian Cordillera ", Science Conspectus,  
Boston, Vol. 5, No. 5, 1915.



"A Physical and Geological Sketch of the Rocky Mountains Park, Alberta", 1915.

"Field Map-Area ", Geological Survey Canada, Memoir 55, 1915 (312 pages, 31 plates, 5 figures)

Map No 142A. Field British Columbia. ( 2 mi.-1 inch), 1915.

"Sections along North Saskatchewan River and Red Deer and South Saskatchewan Rivers", Geological Survey Canada, Summary Report 1917, p. 9c.

"The Geology of the Canadian Rocky Mountains", Canadian Alpine Journal, Vol. 8, 1917, p. 108.

"A Titaniferous Augite from Ice River, British Columbia", American Journal of Science, Vol 43, Art. IX, 1917, p. 75.

"Geology of the Swan Hills in Lesser Slave Lake District, Alberta ", Geological Survey Canada, Summary Report, 1918, p. 7c.

"Mineral Resources of Alberta ", Alberta Industrial Association, 1919.

"Coal Resources and Oil Possibilities of Alberta ", Alberta Industrial Association, 1920.

"First Annual Report on the Mineral Resources of Alberta ", Provincial Government of Alberta, 1920.

"Mineral Development in Alberta in 1920 ", Monetary Times, Dec. 1920.

"Mineral Possibilities in Alberta and Adjoining Territory", (Read before Western Annual Meeting of Canadian Institute of Mining and Metallurgy, Winnipeg, Oct., 1920.)- Bulletin Canadian Institute of Mining and Metallurgy, 1921.

"Salt, Bituminous Sand and Petroleum Resources of Alberta", Address before Edmonton Board of Trade, January, 1921.





Department of Mathematics

Publications by Dr. E. W. Sheldon, Professor of Mathematics, Dr. S. D. Killam, Associate Professor of Mathematics, and Dr. J. W. Campbell, Assistant Professor of Mathematics.

By Dr. E. W. Sheldon-

"Critical Revision of de Haan's Tables of Definite Integrals. (Dissertation)- American Journal of Mathematics, Vol. XXXIV, No. 1.

By Dr. S. D. Killam:

"Über Graphische Integration von Funktionen einer komplexen Variablen mit speziellen Anwendungen. (Dissertation )- Göttingen, 1912.

"A note on graphical integration of a function of a complex variable- Bulletin of the American Mathematical Society, July, 1913.

"A Few Graphical Methods"- Mathematics Teacher, Sept., 1913.

"Graphical Integration of complex variables with applications to meteorology:- Monthly Weather Review, May, 1914.

"An application of the calculus of finite differences to correct an experimental curve, and thus obtain by a graphical method an accurate representation of the integral of a curve." Royal Society, vol. 9, 1916.

"Bond Schedules for the Amortization of a Premium or Accumulation of a Discount", Canadian Chartered Accountant, Vol. 9, No. 4, 1920.

By Dr. J. W. Campbell, Assistant Professor of Mathematics:

"Periodic Solutions of the Problem of Three Bodies in Three Dimensions. (Dissertation).- Proceedings of the London Mathematical Society, Series 2, Vol. 17, 1917, pp 43-83.



"On the Determination of the Date of Easter "- Journal of the Royal Astronomical Society of Canada, Vol. XI, 1917.

"On the Deviation of Falling Bodies "- Journal of the Royal Astronomical Society of Canada, Vol. XII, 1918.

Department of Mining

Publications by N.C. Pitcher, Profess of Mining and

A. E. Cameron, Assistant Professor of Mining:

By Professor Pitcher:

"Preparing Preliminary Estimates for Colliery Buildings",  
Transactions of Canadian Mining Institute, 1913-1914.

By Assistant Professor Cameron:

"Weathering of Coal", Porter, Branton, Billington, Cameron  
and Stensfield- Report 93 Extra Volume, Department of  
Mines, Mines Branch, Ottawa, 1915.

"Geological Reconnaissance about Great Slave Lake, N.W.T.",  
Geological Survey of Canada Summary Report, 1916.

"Explorations in Vicinity of Great Slave Lake, N.W.T.",  
Geological Survey of Canada Summary Report, Part C, 1917.



Department of Modern Languages

Publications by Dr. W. A. R. Kerr, Dean of the Faculty of Arts and Sciences, Dr. J. E. Coar, Professor of German, J. B. Bickersteth, Assistant Professor of French and A. P. Pelluet, Assistant Professor of French.

By Dean Kerr:

Books: Lesage's Turcaret, with Introduction and notes-  
Heath, 1906 (several times reprinted ).

Kerr and Sonet: A French Grammar, MacMillan, 1914,  
reprinted 1920.

Articles: Spain through Canadian Spectacles, Canadian  
Magazine, 1902.

Le Cercle d' Amour, Modern Language Publications,  
1904.

Antoine Hermet, Modern Philology, 1906.

Other fugitive articles.

By Dr. J. E. Coar:

Books: "German Literature in the 19th Century", MacMillan  
Co., N. Y., 1903.  
Goethe's Torquato Tasso, with Introduction & Notes,  
Ginn & Co., 1907.

"Democracy and the War ", Putnam's New York, 1918.

Pamphlets: Lectures delivered at the University of Berlin, 1911  
to 1912 and published by the University in three  
booklets, 1912.

"Democracy-"Autocracy", published by The Patriotic  
Society, 1917.





Articles :

- "Three Contemporary German Dramatists", The Atlantic,  
Jan. 1898.
- "Genesis of a New Drama", The Bookman, Feb. 1899.
- "The Parcae in Goethe's Faust", Modern Language Notes,  
June, 1899.
- "Hermann Sudermann's Three Heron Feathers", The Bookman,  
December, 1899.
- "Gerhardt Hauptmann's Schluck und Jan ", The Bookman,  
August, 1900.
- "Jensen's Marlin", Modern Language Notes, Dec. 1901.
- "Schiller", The Independent, April 1902.
- "The Religion of the Teutons", The Independent, Oct., 1902.
- "A German View of American Life", The Bookman, August, 1904.
- "The Significance of German Literature", The Open Court,  
Dec. 1904.
- "Romantic Poetry in Germany", The Open Court, April, 1905.
- "Remarks, Matured and Otherwise, on Our Present Educational  
System, -The Educational Review, June 1909.
- "Productive Communities", five articles in the Canadian  
Nation, Sept., Oct. & Nov., 1920.

By J. D. Bickersteth :

- "The Land of Open Doors", Wells, Gardner, Darton & Co.,  
London, 1st edition, March 1914, 2nd edition, May, 1914,  
3rd edition, June 1914, 4th edition, Sept. 1919.

The History of the 6th Cavalry Brigade, 1914-1919, with  
Foreword by Field Marshall Earl Haig, K.T. (Sanders  
Phillips & Co., London, Dec., 1919 )

By A.P. Pellust :

- "Thirty Four Graded Lessons in French  
Conversation with Phonetic Transcript and  
Vocabulary, -Holt, London, 1911.



Department of Pathology

Publications by Dr. J. J. Ower, Professor  
of Pathology:

"Early Aneurism of the Aorta"- Journal of Medical Research,  
Sept. 1914.

"The Complement Fixation Test in Gonorrhoea", Canadian  
Medical Association Journal, Dec., 1914.

"Infectious Jaundice"- Lancet, Sept. 1916, (with Dr. N. B. George).

Report- Unattached Mass Found in Abdominal Cavity of a Male-  
American Journal of Medical Science, Sept. 1914, (with  
Dr. R. P. Campbell ).

Chapter on Bacteriology of War Wounds in "Manual of War Surgery",  
Oxford Press, 1919.





## Department of Philosophy

Publications by Dr. J. M. MacEachran, Professor of Philosophy:

"Pragmatism"- Dieterich, Leipzig, 1909.

## Department of History

Publications by A. L. Burt, Associate Professor of History and M. H. Long, Assistant Professor of History:

By A. L. Burt: "Imperial Architects"- Blackwell, Oxford, 1913.

By M. H. Long: "Knights Errant of the Wilderness"- MacMillan, Toronto, 1920.

## Department of Political Economy

Publications by Dr. D. A. MacGibbon, Professor of Political Economy and Mr. A. F. McGoun, Lecturer in Political Economy:

By Dr. MacGibbon:

Book- "Railway Rates and the Canadian Railway Commission "-(Hart, Schaffner & Marx Prize Essay), Houghton Mifflin, 1917.

Articles- "French Socialism (2) "- Journal of Political Economy, Jan., 1911, Feb. 1911.

"Grain Legislation Affecting Western Canada". Journal of Political Economy, March, 1912.

By Mr. McGoun:

Articles- "The Nature of Interest and the Cause of its Fluctuation"- Quarterly Journal of Economics, August, 1917.

"The Taxation of Luxuries and the Rate of Interest, Quarterly Journal of Economics, February, 1919.



Department of Physics

Publication by Dr. R. W. Boyle, Professor of Physics, S. Smith, Assistant Professor of Physics and R. J. Lang, Lecturer in Physics:

By Dr. R. W. Boyle :

Effect of an Electric Current on the Modulus of Elasticity- Transactions Royal Society of Canada, Sec. Ser., Vol. XII, 1906-07.

Effect of Tensile Stress on Electrical Resistance- Transactions of the Royal Society of Canada, 2d, XII, 1906-07.

Effect of Temperature and of Velocity of Carrying Gas on the Absorption of the Radio-Active Emission by Charcoal.- Transactions of the Royal Society of Canada, 3d, Ser., I, 1907-08.

Absorption of Thorium Emission by Charcoal.- Bulletin, Royal Society, No. 11, 1908.

Absorption of Radio-Active Emanations- Journal of Physics Chem., Vol. 12, No. 7, 1908; Le Radium, 8, 7 July, 1910; Phil. Mag. 6, 17 March, 1909.

Volatilisation of Radium Emission at Low Temperature - Phil. Mag., Dec. 1910.

Solubility of Radium Emission, Application of Henry's Law at Low Partial Pressures- Phil. Mag. Dec. 1911.

The Heat of Solution of Radium Emission- Transactions of Royal Society, 3d Ser., VI, 1912.

A Physical Test on a Methane Natural Gas Well- Transactions Royal Society, Series III, IX, 1915.

(During the war Dr. Boyle was engaged on research work in problems connected with anti-submarine warfare for the Admiralty Board of Inventions and Research, and Anti-Submarine Division. In this period, researches were undertaken which are now reported in some fifteen or twenty reports and papers, which are confidential and not permitted to be published. At present, Dr. Boyle is doing the preliminary work for a continuation of a research somewhat similar to those of the past few years. )





By S. Smith, M.A., B.Sc. :

"The Initial Stages of Ionisation by Collision"-  
Phil. Mag., June, 1914.

(During the war, Mr. Smith was Experimental Officer in Experimental Stations of the Royal Naval Air Service and later of the Royal Air Force. In this period, he did research work on the following : " On Wireless Direction-finding in Aircraft "; "The Measurement of Period and Logarithmic Decrement of Pitching Oscillations of Full Scale Aeroplanes in Flight"; also work on "Camera type of barograph for aeroplane testing". The above work of Mr. Smith is reported in confidential papers and reports which cannot be published. Mr. Smith is just starting research work for which he has a financial grant from the Air Research Committee of Canada on the subject of Elastic Hysteresis in Barographs.

By R. J. Lang, M.A. :

"An Investigation of Extreme Ultra Violet Spectrum, with a Vacuum-grating Spectrograph. Proceedings of the Royal Society A, Vol. 95, 1919, (associated with Professor J. C. McLennan.

#### Department of Soils

Publications by Dr. F. A. Wyatt, Professor of  
Soils :

"Influence of Calcium and Magnesium Compounds on Plant Growth",  
Journal of Agricultural Research, Vol. 8, #16, July, 1916.

"Limestone Action on Acid Soils"- Bulletin 212, Illinois  
Experimental Station, Jan. 1919.

"Comparative Value of the Various Forms of Limestones"-  
Soil Science, Vol. 7, #4, April, 1919.

" Some Problems in Soil Management"- Farmers Advocate,  
June 23, 1920.





Department of Physiology

Publications by Dr. M.W. Downs, Professor of Physiology:

"Effect of Alcohol on the Heart Muscle, -Monthly Cyclopedea and Medical Bulletin, 1911,1, (March).

"The Genesis of the Heart Beat"- Monthly Cyclopedea and Medical Bulletin, 1912, 1 (July).

"A Study of the Mechanism of Respiration "- Bulletin of the Medico-Chirurgical College of Philadelphia, 1915,1, February.

"Blood Pressure in Haemorrhage and its Restoration"- American Journal of Physiology, 1916, XI, 533.

"Vitamine"- Journal of the Florida Medical Association, 1916, 111, 169.

"The Influence of Secretin on the Number of Erythrocytes in the Circulating Blood" American Journal of Physiology, 1917, XLiii, 415. (In collaboration with Dr. N. B. Eddy)

"Secretin II. Its Influence on the Number of White Corpuscles in the Circulating Blood."- American Journal of Physiology, 1918, xlv, 294. (In collaboration with Dr. Eddy).

"Secretin III. Its Mode of Action in Producing an Increase in the Number of Corpuscles in the Circulating Blood. American Journal of Physiology, 1918, xlvi, 209. ( In collaboration with Dr. Eddy).

"Secretin IV. The Number of Red and White Corpuscles in the Circulating Blood during Digestion. American Journal of Physiology, 1918, xlvii, 399. (In collaboration with Dr. Eddy ).

"Secretin and the Change in the Corpuscle Content of the Blood during Digestion. Journal of the Florida Medical Association, 1918, v, 101. (In collaboration with Dr. Eddy).

"Two Suggestions of Apparatus for the Teaching Laboratory. "- Journal of Laboratory and Clinical Medicine, 1918, iii, 3.

(In collaboration with George Hays ).

"The Influence of Internal Secretions on the Formation of Bile." American Journal of Physiology, 1919, xlviii, 192. (In collaboration with Dr. Eddy ).

"The Influence of Internal Secretions on Blood Pressure and the Formation of Bile. "- Proceedings of the American Physiological Society, American Journal of Physiology, 1920, 11, 193.



"The Influence of Splenic Extract on the Number of Corpuscles in the Circulating Blood." American Journal of Physiology, 1920, 11, 279. (With Dr. Eddy).

"The Influence of Internal Secretions on Blood Pressure and the Formation of Bile." American Journal of Physiology, 1920, 111, 498.

"Effect of Subcutaneous Injections of Thymus Substance in Young Rabbits". Endocrinology, 1920, iv, 420.  
(With Dr. Eddy) .

#### Publications by Dr. N. B. Eddy

"A Case of Arrested Development of Pancreas and Intestine". Anatomical Record, 1912, vi, 319.

"Recovery in Brain Syphilis after the Use of Salvarsan". Journal of the American Medical Association, 1913, 1x, 1296.

"The Influence of Secretin on the Number of Erythrocytes in the Circulating Blood." American Journal of Physiology, 1917, xliii, 415.  
( with Dr. A .W. Downs ).

"Secretin II. Its Influence on the Number of White Corpuscles in the Circulating Blood,"- American Journal of Physiology, 1918, xlv, 294. ( with Dr. A. W. Downs ).

"Secretin III. Its Mode of Action in Producing and Increase in the Number of Corpuscles in the Circulating Blood." American Journal of Physiology, 1918, xlv, 209.  
(With Dr. A. W. Downs )

"Secretin IV. The Number of Red and White Corpuscles in the Circulating Blood during Digestion. "- American Journal of Physiology, 1918, xlvii, 339. (With A. W. Downs ).

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"The Role of the Thymus Gland in Exophthalmic Goitre." Canadian Medical Association Journal, 1919, ix, 203.

"The Influence of Internal Secretions on the Formation of Bile." American Journal of Physiology, 1919, xlviii, 192. (with A. W. Downs).







"The Influence of Splenic Extract on the Number of Corpuscles in the Circulating Blood. "- American Journal of Physiology, 1920, li, 279. (With Dr. A. W. Downs ).

"Effect of Subcutaneous Injections of Thymus Substance in Young Rabbits"- Endocrinology, 1920, iv, 420. (with Dr. A. W. Downs).



Publications by Dr. J. B. Collip, Associate Professor of Physiology:

"A Hitherto Unrecognized Substance in Nerve Cells"- Report of  
British Association for Advancement of Science, p 142, 1913.  
(with A. H. Macallum ).

"Internal Secretions"- Canadian Medical Association Journal, Dec. 1916.

"The Effect of Sleep on the Alkali Reserve of the Plasma": Journal  
of Biological Chemistry, p 473, Vol. 41, 1920.

"The Alkali Reserve of the Blood Plasma, Spinal Fluid and Lymph".-  
American Journal of Physiology, p 531, Vol. 51, 1920.  
( with P. L. Backus )

"The Effect of Prolonged Hyperpnoea on the Carbon dioxide Tensions of  
the Alveolar Air, and the Excretion of Acid and Basic Phosphate and  
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"The Osmotic Pressure of Serum and Erythrocytes of Various Vertebrate  
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" Maintenance of Osmotic Pressure within the Nucleus". - Journal  
of Biological Chemistry, p 227, vol. 42, 1920.

"Subarachnoid and Intra- arterial Administration of Sodium Bicarbonate  
and Other Electrolytes".- American Journal of Physiology, p 483, vol. 53, 1920.

"The Action of the  $\text{HCO}_3$  ion and of Morphine on the Respiratory Centre".-  
British Journal of Physiology, p 58, vol. 54, 1920.

The Significance of the Calcium-ion in the Cell.- Experimental Pathology "-  
Canadian Medical Association Journal, October 1920.

"Antagonism of the Inhibitory Action of Adrenalin and Depression of the  
Cardiac Vagus by a Constituent of Certain Tissue Extracts".-  
American Journal of Physiology, p 343, vol 53, 1920.

"Antagonism of Depressor Action of Small Doses of Adrenalin by Tissue  
Extracts".- American Journal of Physiology, p 477, vol 53, 1920.



"The Alkali Reserve of Marine Fish and Invertebrates. The Excretion of Carbondioxide".-Journal of Biological Chemistry, p 329, vol. 44, 1920.

"Studies on Molluscan Coelomic Fluid. The Effect of Change in Environment on the Carbondioxide Content of the Coelomic Fluid. Anaerobic Respiration in Mya Arenaria".- Journal of Biological Chemistry, p 23, vol. 45, 1920.

"A Peculiar Effect of Chloroform on the Cardio-Inhibitory Centre".- Journal of Physiology (British), pXXI, vol.54, 1920.

"The Effect of Surgical Anaesthesia upon the Reaction of the Blood". British Journal of Experimental Pathology, p 252, vol.1, 1920.

"Reversal of Depressor Action of Small Doses of Airenalin".- American Journal of Physiology, March 1920.





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S U M M A R Y  
of  
INCOME AND EXPENDITURES.

PROVINCIAL GOVERNMENT:

Proportion Succession Duties	\$136589.81
" Corporation tax	61649.39
Grant from Legislature	<u>284454.55</u>

Interest & exchange on Debentures

Expenditure.      Income.

\$ 482693.75

118792.11

FEES:

Returned Soldiers	3907.50
Examinations	6683.00
General	<u>41107.50</u>
	<u>51698.00</u>
Less Refunds	<u>2404.77</u>

49293.23

RENTALS:

Residences, suites & rooms

19736.45

35503.71

Faculty Houses, Rents

2333.14

5604.68

DINING ROOM:

86961.14

85008.55

BOOKSTORE:

25861.39

31333.70

PRINTING DEPARTMENT:

10220.56

13267.62

GAS PLANT:

7602.16

649.63

POWER PLANT:

46473.07

11155.25

Extension Department :

24431.98

5977.89

AGRICULTURE:

10453.25

3325.62

FIELD HUSBANDRY:

21966.51

ANIMAL HUSBANDRY:

50279.98

11535.79

General Expenditure

3754.03

Returned Soldiers' work

1451.94

PHARMACY:

890.82

95.10

Forward . . . . 431208.54

735444.52



INFORMATION REPORT

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2. ANALYSIS

3. CONCLUSIONS

4. RECOMMENDATIONS

5. REFERENCES

6. APPENDICES

7. GLOSSARY

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	<u>Expenditure.</u>	<u>Income.</u>
Brought forward.....	431208.54	735444.52
<u>LABORATORIES:</u>	15158.22	
<u>PROVINCIAL LABORATORY:</u>	19319.59	
<u>INDUSTRIAL LABORATORY:</u>	1442.87	2550.95
<u>LIBRARY:</u>	2079.62	
<u>CARPENTER SHOP:</u>	23958.83	28445.35
<u>SCHOLARSHIPS &amp; MEDALS:</u>	535.00	305.00
<u>CORRESPONDENCE COURSES:</u>	9409.86	
<u>EXAMINATIONS:</u>	5039.53	
<u>PHYSICAL EDUCATION:</u>	2025.74	
<u>LAW LECTURES &amp; ACCOUNTANCY:</u>	4209.65	
<u>CALENDARS &amp; ADVERTISING:</u>	2445.12	
<u>INSURANCE:</u>	5713.79	
<u>TRAVELLING EXPENSES:</u>	2500.06	
<u>INTEREST ON OVERDRAFTS &amp; EXCHANGE:</u>	398.24	
<u>UPKEEP OF MOTORS:</u>	978.16	
<u>GENERAL EXPENSES-CONTINGENCIES:</u>	9883.06	
<u>REPAIRS TO BUILDINGS:</u>	11170.68	
Forward . . . . .	546436.56	768745.80



	<u>Expenditure</u>	<u>Income.</u>
Brought forward	546456.56	768745.80

ARTS BUILDING:

Janitors salaries, etc.	13563.12	
Sundry sales, janitors' stock		127.05

SALARIES:

217959.05

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777958.73	768872.85
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Excess Expenditure over Income

9085.88

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777958.73	777958.73
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DATE      TIME

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REMARKS

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12/10/07      01:00 PM      12/10/07 01:00 PM

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UNIVERSITY OF ALBERTA.

ACCOUNTS RECEIVABLE

DECEMBER 31, 1920.

S U M M A R Y.

General . . . . . \$13902.73

Bookstore . . . . . 3195.31

Room & Board . . . . . 3837.57

Fees . . . . . 2403.30

\$23,338.91



ATTEST

NOTARY PUBLIC

STATE OF TEXAS

TESTE

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, at \_\_\_\_\_, State of Texas.

Notary Public

UNIVERSITY OF ALBERTA.

DECEMBER 31, 1920.

ACCOUNTS RECEIVABLE.

Allan, J. A.	12.59
Alger, W. Ross	35.00
M. T. Hutchinson	75.75
Alberta Gov. Dept of Agri.	290.95
Alberta College	17.85
Allison, W.R.	55.00
Alberta Ladies College	14.31
Alexander, Prof. W.H.	3.42
Alberta Product Display	191.75
Air Force of Canada	2.93
Alumni Assn.	12.00
Atheletic Socy.	93.90
Burgess, C.E.	158.08
Bowers, F.J.	49.35
Berkov, A.	40.00
Bickersteth, J.B.	2.67
Bosomworth, H.	30.80
Basketball Comm.	4.00
Burt, A. L.	15.45
Broadus, E.A.	18.50
Brown, H.	7.50
Blow, H.	10.40
Board of Education, London, Eng.	107.50
Barclay, R.G.	25.00
Beaver Brokers	10.00
Blackstone Coals Ltd	53.00
Brand, Dr.	20.00
City of Edmonton	5.00
Class 1920	1.42
Canadian Pacific Ry.	58.34
Cameron, D.E.	3.60
Conversazione	191.96
Coates, H.E.	10.00
Cutler, G.H.	37.75
City Engineer, Medicine Hat	10.00
Caudwell, Miss E.	8.34
Carscallen, W.F.	1.80
Cameron, A.E.	1.26
Claymore School	3.60
Carruthers, Mr.	.40
Creighton, J.K.	9.00
Clark, J.T.	4.10
Dennison & Collins, Glais A/c.	66.43
Down, H.	10.00
Downes, G.E.	15.00
Dramatic Society	12.20
Dean, H.	10.00

*Salvia rosmarinifolia*

19.00	Alaska, U.S.A.
18.75	Alaska, V. Novosibirsk
18.50	M. S. Khabarovsk
18.25	Alaska Gov. House of Reps.
18.00	Alaska College
17.75	Alaska, U.S.A.
17.50	Alaska State College
17.25	Alaska, U.S.A.
17.00	Alaska, U.S.A.
16.75	Alaska, U.S.A.
16.50	Alaska, U.S.A.
16.25	Alaska, U.S.A.
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15.75	Alaska, U.S.A.
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9.75	Alaska, U.S.A.
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9.25	Alaska, U.S.A.
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8.75	Alaska, U.S.A.
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3.25	Alaska, U.S.A.
3.00	Alaska, U.S.A.
2.75	Alaska, U.S.A.
2.50	Alaska, U.S.A.
2.25	Alaska, U.S.A.
2.00	Alaska, U.S.A.
1.75	Alaska, U.S.A.
1.50	Alaska, U.S.A.
1.25	Alaska, U.S.A.
1.00	Alaska, U.S.A.
0.75	Alaska, U.S.A.
0.50	Alaska, U.S.A.
0.25	Alaska, U.S.A.
0.00	Alaska, U.S.A.

Accounts Receivable, 2.

Dominion Express	1.20
Dowell, A. A.	2.82
Dunn, F.A.S.	3.75
Dominion Gov. NRC.	995.34
" " Ottawa	146.29
Deans, Rev. W	2.00
Drummond, L.E.	40.00
Dominion Gov. A.R.C.	3.94
Edmonton Portland Cement Co.,	935.96
Extension Department	25.00
Edmonton Brewing & Malting Co.,	60.00
Evans, Mr.	1.30
Ferris, R. B.	50.00
Frost & Wood,	1.35
Fuller, Geo. & Co.	279.61
Fetter, R.	1.00
Forster, R.P.	20.00
Freshman Comm.	75.03
Gorman, Clancy & Grindley Ltd.	10.00
Gaetz, H.H.	1.55
Grunert, Dr.	5.00
Gordon, M.M.	1.00
Gines, Geo.	20.97
Bibbs, Mr.	7.00
Gaetz, L.H.	15.00
Garrioch, H.G.	75.00
Howes, Dean E.A.	24.39
Hurst, D.D.	1.50
Hutton Local U.W.A.	95.90
Hartley, J.	830.99
Hopkins, Rev. C.F.	13.60
Haddon, H.R.	1.00
Hughson, Rev. I.N.	.75
Hogg, W.J.	14.40
Henderson, Egbert,	4.00
Houghton, Rev. A.V.	73.00
Harcourt, George	4.75
Hall, G.M.	10.00
Howlett, Miss H.G.	1.20
Hopkins, Rev. C.G.	.50
Hudsons Bay Company	10.00
Hudsons Bay Company Mail order Branch Saskatoon, Sask.	10.00
Industrial Lab.	251.35
Institute of Chartered Accountants	41.47
Inland Revenue	155.00
James, W.E.	85.10
Jackson, Roy	55.40
Jamieson, Dr.	4.71
Jamieson, F.G.	39.45
Jamieson, Col. F.C.	10.00
Jackson, Prof. Olyo	15.00
Jasper Park Collieries	80.50
Johnstone & Ritchie	20.00







### Accounts Receivable. 3.

Jenkins, George	2.00
Johnston, J.H.	43.61
Kerr, W.A.R.	6.24
Kelso, J.A.	26.61
Keoma Kathryn Local Union	2.75
Khaki University	1.90
Krammer, F.	15.60
Lehmann, Dr. A.	22.78
Lansdown, R.	10.00
Lewis, J.W.	23.00
Lutheran Church	21.50
Live Stock Board	20.60
Lloyd, M.E.	2.59
Lindsay, James	.15
Lowler, F.W.	10.00
Leisner, E.J.	1.50
Moshier, Dr.	22.34
Misner, Miss G.	28.90
Morris, S.C.W.	.20
University Memorial Fund	27.00
Murray, W.	9.36
Medical Service	26.34
Martin, Mr.	1.00
Mullen & Carruthers	265.00
Montgomery, Miss J.F.	1.96
Matheson, A.S.	10.00
Morkenberg, D.	50.00
Moore, R.C.	2.40
McCarter, G.S.	10.00
MacCosham Storage Co.,	19.76
McNachran, Dr.	7.20
McRae, D.A.	24.00
McGibbon, Dr.	3.60
McDougall Sunday School	1.50
McKenzie, D.S.	6.00
McHattie Rev. J.H.	7.20
McGawley, F.A.	2.00
Neale, C.	3.09
Ngaly, Rev. James	3.60
Nesbitt, E.H. & Co.	3.43
Norrington, Miss A.	17.50
North West Milling Co.,	17.50
Nettles, W.H.	6.00
Nichols, Mr.	6.00
Ottewell, A.E.	11.86
Ozkley, Miss B.	.75
One hundred and Forty-Second St. Comm. League	72.00
Owen, Mr.	.40



Accounts Receivable. 4.

Peters, Frank	11.55
Pawling, H.W.	1.00
Perry, B.L.	26.75
Provincial Lab.	10.00
Provincial Gov. Mines Branch	383.35
Provincial Gov. Dept. of Education	30.40
Pike Coy. A.	27.15
Dept. of Agriculture (Ottawa)	15.00
Philisophical Socy.	36.40
Petrie D.A.	17.50
Patrick, Miss M.	1.25
Pittendrick, Mr.	26.00
Racé, C.E.	7.25
Ryley School	32.00
Rodgers Rev. C.E.	11.30
Royal Alex. Hospital	21.96
Rugby Club	52.40
Rankin, Dr.	6.10
Ramséy, James Ltd.	113.60
Robb, C.A.	5.65
Robertson Church	1.50
Research Council	1761.77
Rowan, William	1.60
Revell, Dr.	.41
Redden, A	19.44
Simmonds, Rev. R.A.C.	1.25
Sheldon, Dr.	32.55
Summer School	2.00
Surry, F.R.	71.25
Suspense A/c.	1.65
Students Union	37.10
Smith, S.	16.00
Sophomore Year	5.00
St. Marks Church	50.00
Sparks, Mr.	1.00
Sullivan Major	10.00
Senior Engineer (M.D.13)	6.00
Sanderson, Mr.	2.00
Thomas, Jamieson, McKenzie Ltd.	1556.32
Tilson, F.L.	4.00
Thompson	1.35
Union Church (Lamont)	6.45
Underwood, C.E.	34.37
Vailancourt, A.	10.00
Walford, W.G.	.50
Warner, M.C.	7.01
Westminster College	2018.00
Wait, T.E.	1.50
Westman, G.P.	.50
Williamson, Dr.	10.00

Appendix A

10.00	William, W.
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Accounts Receivable; 5.

Aauneita Society	30.00
Warren, B.	9.27
Walker, A.J.	1.01
Young, W.T.	1.35
Y. M. C. A	34.64
University Bookstore	<u>50.00</u>

Total . . . . . \$13936.13

Less Credits:

Edmonton City Dairy	\$8.77	
Hingston Smith Co.	7.20	
Jellett & Slessor	7.50	
Mayerman, H.	3.60	
Napier, W.K.	2.78	
Outstanding wages	1.55	
Univ. of Wisconsin	<u>2.00</u>	<u>33.40</u>

\$13902.73

Bookstore Accounts Receivable as per list

3195.31

\$17098.04

Less Held in abeyance for Potato Account

560.78

\$16537.26



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UNIVERSITY OF ALBERTA.

DECEMBER

31.1920.

BOOKSTORE ACCOUNTS RECEIVABLE.

Alumni Association	18.80
Alexander, Dr. W.H.	6.50
Atkinson Publishing Co.	905.65
Alberta College	21.00
Burt, A.L.	1.15
Claresholm School of Agriculture	38.54
Coar, Dr. J.F.	10.12
Dramatic Society	15.21
Edmonton Vacant Lots Assoc.	62.55
Gastz, H.H.	6.25
Gateway, The	1307.40
Knights Bindery	34.10
Literary Society	7.00
Law Students Society	31.50
Misner, Dr. G	4.95
Moss, R.W.	61.90
Mount Royal College, Calgary.	51.79
Poaps, W.E.	4.00
Sheldon, Dr. E.W.	28.52
Vermilion School of Agriculture	420.43
Western Canadian Society of Agronomy	19.25
Y. M. C. A. (Intercollegiate)	135.95
Y. W. C. A.	2.75

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\$3195.31



UNIVERSITY OF ALBERTA.

DECEMBER 31, 1920.

BOARD AND ROOM ACCOUNTS RECEIVABLE.

Atenaker, E.	40.00
Alexander, N.E.	40.00
Blair, S.M.	35.00
Baker, W.E.	7.00
Beck, C.F.	85.00
Buckingham, E.H.	38.35
Budd, W.S.	32.00
Bowers, F.G.	55.25
Bryan, Miss H.	13.00
Buchanan, J.	58.55
Bryan, W. C.	84.00
Carscallen H. M.	80.00
Calhoun, Miss,	46.00
Cleland, R. H.	40.00
Currie, D.	13.35
Clarke, J.G.	45.35
Campbell, J.W.	46.00
Cameron, D. E.	120.00
Crockford, M.B.	40.00
Dyer, T. M.	7.00
Deadman, Miss,	40.00
Eggen, R.	97.50
Fitzsimmons	82.00
Fraser, Miss L.	40.00
Fabb, Miss C. L.	45.00
Gardiner, E. W.	.17
Gimpe, S.	.15
Guencher, H. G.	20.00
Glenn, J.S.	9.00
Hu ter, E.	50.00
Hall, Miss M	35.00
Hardy, W. G.	16.00
Hall, J. L.	40.00
Hammond, E. A.	40.00
Harmer, R.	40.00
Jamieson, H. C.	247.00
Kerr, W. A. R.	62.35
Lang, J. W.	40.00
Laidlaw, J. B.	40.00
Liesner, E. J.	40.00
Lewis, F. J.	40.00



Journal of Management Inquiry 20(4)



Board & Room A/cs. R. 2.

Mount, G.	84.60
Mealing, C. H.	80.00
Murphy, F. J.	40.00
Meagher, James, E.	26.35
Manning, A. H.	80.00
Morrison, I. F.	90.00
Misener, Miss. G.	20.00
Moss, R. W.	191.50
Morgan, S. C.	40.00
McLeod, Munroe	42.00
Macdonald, J. K.	33.00
McGoun, A. F.	7.00
MacArthur, Hector	26.65
MacRae, D. A.	40.00
McLean, Miss L. L.	4.00
McAllister, John A.	40.00
McGibbon, Dr.	46.00
McCarthy, Miss H.	38.65
Nicoll, James.	80.00
Ottewell, A. E.	45.00
Patrick, Miss M.	7.00
Riches, Percy	40.00
Routledge, G. L.	10.00
Robb, C. A.	55.25
Robertson, Scott	31.00
Rivett, Miss M. F.	10.25
Stolie, P.	13.00
Sandin, R.	80.00
Soby, H. W.	76.00
Sterritt, W. R.	40.00
Stover, Norman	40.00
Sampson, J. A.	40.00
Sillak, J. G.	80.00
Sheldon, Dr. E. W.	123.50
Sanford, G.	40.00
Turnbull, W. B.	70.00
Tregillus, Miss M.	11.00
Thurston, W.	50.00
Tuttle, Miss	11.50
Whittaker, E. L.	10.00
Warren, P. S.	7.80

Forward - - - - -

3837.57



Board & Room A/c. R. 3.

To Balance owing as per list

\$3837.57

By amount paid in advance;

Baker, H. M.	167.40
Baker, R. N.	160.00
Byers, J.M.	10.00
Corbett, T. E.	12.00
Crawford	40.00
Dowler, H. A.	10.00
Edwards, C. G	12.00
Hughes, Ed.	10.00
Kruse, M. E	38.00
Land, O. B	12.00
Miehie	12.00
Mahaffy, Miss M.	4.00
McDougall, J. C	10.00
Tait, R. M.	40.00
Westwood, Norman,	12.00
Wallace, P. R. M	15.00

564.40

\$ 3273.17

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UNIVERSITY OF ALBERTA.

DECEMBER 31, 1920.

LIST OF ACCOUNTS PAYABLE.

W. F. Kohler	8.00
B. Liebish	131.13
Max Wag	9.87
James Howden & Co.	636.55
E. Leitz	1105.00
W. B. Boucher	433.13
Dr. W. S. Scott	9.50

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\$2333.18

Board and Room paid in advance	564.40
Potato account, credit balance	560.78

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\$3458.36

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STATE OF NEW YORK

IN SENATE

REPORT OF THE

COMMISSIONER OF THE LAND OFFICE  
IN RESPONSE TO A RESOLUTION  
PASSED BY THE SENATE  
MAY 1, 1890  
RELATIVE TO THE  
LANDS BELONGING TO THE STATE  
AND THE MANNER OF DISPOSING OF THEM

ALBANY:

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UNIVERSITY OF ALBERTA.

SCHEDULE

DECEMBER 31, 1920.

OF FEES.

Applied Science	4490.00
Bachelor of Arts	7800.50
Bachelor of Science	960.00
Medicine	11817.50
Law	1200.00
Graduate	335.00
Dentistry	2932.00
Correspondence	840.00
B.A., B.Sc.,	570.00
B.A., Ll.B.	1620.00
B.A., M.A.	1238.00
B.A., B.S.A.	210.00
Pharmacy (Lic )	2925.00
B.Sc. in Pharmacy	600.00
B.Sc. in Household Economics	708.00
B.D.	15.00
Registration	139.00
Summer School	177.00
Agriculture (Special course)	5165.00
Vise fees	175.00
Transcript fees	89.00
Examination fees, Supplemental	1480.00
A.L.S.	80.00
Dental	355.00
Medical	1554.23
Pharmacy	180.00
C.A.	470.00
Law	2570.00
Degree fees	600.00

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\$49293.23

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UNIVERSITY OF ALBERTA.

SCHEDULE "B"

B U I L D I N G S.

DECEMBER 31, 1920.

Arts Building		667695.69
Medical Building		641424.71
Power House & Lab.		196507.98
Mining Engineering Bldg.		140973.26
Athabasca		207944.80
Pembina		260839.41
Assiniboia		213046.40
Dining Hall		78307.68
Faculty Residences		79256.71
Heating Plant		56447.17
Farm Buildings		
Barns	28110.83	
House	2398.45	
Dairy	994.80	
Well	686.25	
Root House	1436.81	
Shacks	1054.11	
Stock Pavilion	4739.82	
Silo	6124.90	45545.97
Gas House		12307.51
Green House		1427.40
Root House		445.00
Ice House		463.49
Astronomical Observation		127.48
Construction Office		1235.64
Carpenter Shop		2365.17
Post Office Construction		400.65
Bicycle Rack		123.50
Gravel for New Buildings		850.50

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\$2607736.12

1995-1996

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

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UNIVERSITY OF ALBERTA.

SCHEDULE "C"

FURNISHINGS AND EQUIPMENT.

DECEMBER 31, 1920.

Library	\$56,199.42
Architecture	4,231.00
Gymnasium Equipment	3,912.17
Household Economics	4,501.08
Motor Truck & Auto	2,406.85
Light & Telephone systems	1,221.39
Arts Building	59,482.10
Anatomy	7,756.83
Agriculture	6,340.00
Biology	8,600.60
Bacteriology	1,209.19
Chemistry	16,654.10
Dentistry	1,409.06
Engineering	17,997.38
Geology	8,244.98
Medical Building	4,008.50
Pharmacy	450.21
Physics	23,538.06
Physiology	11,311.98
Psychology	406.73
Residence Buildings	71,095.19
Industrial Laboratory	377.77
Drawing	143.55
Pathology	62.97
Soils	7,104.60
Mathematics	530.50
Clinical Medicine	134.65
Travelling Libraries	10,590.31
Machine Shop	4,920.85
Printing Department	9,224.71

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\$324,066.73



UNIVERSITY OF ALBERTA.

DECEMBER 31, 1920. .

SCHEDULE OF EXAMINATIONS - EXPENDITURE.

Regular	655.60
Medicine	472.50
Dental	320.00
Law	1393.10
Land Survey	127.50
Chartered Accountants	318.55
Pharmacy	40.00
Supplementals	101.50
Special Supplementals	52.00
Registered Nurses	297.43
Matriculation	36.20
Board of Examiners	39.95
Printing, stationery, telegrams express, etc.	1185.20

\$5039.53



UNIVERSITY OF ALBERTA.

DECEMBER, 31, 1920.

LABORATORIES - EXPENDITURE.

Anatomy	1665.90
Biology	692.35
Dentistry	202.64
Chemistry	1753.25
Moderns	17.95
Soils	996.80
Geology	235.60
Physics	2786.66
Drawing	7.55
Pathology	53.25
Physiology	3669.24
Mathematics	199.30
Household Economics	1271.91
Engineering	1605.82

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Total . . . . . 15,158.22

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UNIVERSITY OF ALABAMA

RECEIVED

STATEMENT OF EXPENDITURES

1888.00	Anatomy
692.82	Biology
202.84	Dentistry
1788.25	Chemistry
17.00	Medicine
998.80	Soils
228.10	Geology
400.00	Physics
7.85	Drawing
100.00	Mathematics
200.00	Statistics
200.00	Botany
100.00	Zoology
100.00	Entomology
100.00	Microbiology
100.00	Physiology

Total \$10,000.00

UNIVERSITY OF ALBERTA.

I N S U R A N C E.

DECEMBER 31., 1920;

<u>Property</u>	<u>Amount</u>	<u>Average Rate</u>	<u>Premium</u>	<u>Prem. unearned Dec. 31, 1920.</u>
Arts Bldg.	428,000	.94	4023.20	1,225.78
Dwelling Schedule	71,250	1.19 /	848.97	417.91
General Schedule	799,680	1.36 /	10892.43	7,668.66
North Laboratory	50,000	2.62	1310.00	818.97
South Lab. Addition	20,000	2.86	572.00	356.97
Specific (Barns. double resid., autos, etc.)	31,000	1.94 /	603.00	250.15
Totals	1,399,930		18,249.60	10,718.44

NOTE: Insurance on Medical Building under construction at Dec. 31, 1920, \$50,000 at 50 cents. Additional \$50,000 placed January 10, 1921. - Carried on Capital.

I HEREBY CERTIFY THAT THE ABOVE IS A TRUE STATEMENT OF THE INSURANCE ON UNIVERSITY BUILDINGS AS AT DECEMBER 31st, 1920.

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100-36 27-110

Year	Amount	Balance	Total
1900	100.00	100.00	100.00
1901	100.00	200.00	200.00
1902	100.00	300.00	300.00
1903	100.00	400.00	400.00
1904	100.00	500.00	500.00
1905	100.00	600.00	600.00
1906	100.00	700.00	700.00
1907	100.00	800.00	800.00
1908	100.00	900.00	900.00
1909	100.00	1000.00	1000.00
1910	100.00	1100.00	1100.00
1911	100.00	1200.00	1200.00
1912	100.00	1300.00	1300.00
1913	100.00	1400.00	1400.00
1914	100.00	1500.00	1500.00
1915	100.00	1600.00	1600.00
1916	100.00	1700.00	1700.00
1917	100.00	1800.00	1800.00
1918	100.00	1900.00	1900.00
1919	100.00	2000.00	2000.00
1920	100.00	2100.00	2100.00
1921	100.00	2200.00	2200.00
1922	100.00	2300.00	2300.00
1923	100.00	2400.00	2400.00
1924	100.00	2500.00	2500.00
1925	100.00	2600.00	2600.00
1926	100.00	2700.00	2700.00
1927	100.00	2800.00	2800.00
1928	100.00	2900.00	2900.00
1929	100.00	3000.00	3000.00
1930	100.00	3100.00	3100.00
1931	100.00	3200.00	3200.00
1932	100.00	3300.00	3300.00
1933	100.00	3400.00	3400.00
1934	100.00	3500.00	3500.00
1935	100.00	3600.00	3600.00
1936	100.00	3700.00	3700.00
1937	100.00	3800.00	3800.00
1938	100.00	3900.00	3900.00
1939	100.00	4000.00	4000.00
1940	100.00	4100.00	4100.00
1941	100.00	4200.00	4200.00
1942	100.00	4300.00	4300.00
1943	100.00	4400.00	4400.00
1944	100.00	4500.00	4500.00
1945	100.00	4600.00	4600.00
1946	100.00	4700.00	4700.00
1947	100.00	4800.00	4800.00
1948	100.00	4900.00	4900.00
1949	100.00	5000.00	5000.00
1950	100.00	5100.00	5100.00
1951	100.00	5200.00	5200.00
1952	100.00	5300.00	5300.00
1953	100.00	5400.00	5400.00
1954	100.00	5500.00	5500.00
1955	100.00	5600.00	5600.00
1956	100.00	5700.00	5700.00
1957	100.00	5800.00	5800.00
1958	100.00	5900.00	5900.00
1959	100.00	6000.00	6000.00
1960	100.00	6100.00	6100.00
1961	100.00	6200.00	6200.00
1962	100.00	6300.00	6300.00
1963	100.00	6400.00	6400.00
1964	100.00	6500.00	6500.00
1965	100.00	6600.00	6600.00
1966	100.00	6700.00	6700.00
1967	100.00	6800.00	6800.00
1968	100.00	6900.00	6900.00
1969	100.00	7000.00	7000.00
1970	100.00	7100.00	7100.00
1971	100.00	7200.00	7200.00
1972	100.00	7300.00	7300.00
1973	100.00	7400.00	7400.00

44.817,01 00.048,81 080,000,1 01000

Approved by the Board of Directors of the Corporation on 10/10/51  
 Signed by the President of the Corporation on 10/10/51  
 Witnessed by the Secretary of the Corporation on 10/10/51

UNIVERSITY OF ALBERTA.

I N S U R A N C E.

DECEMBER 31, 1920.

Arts Building	428,800.00	
Contents		79,000.00
Pembina Hall	134,000.00	
Contents		8,000.00
Power Plant Building	40,000.00	
Contents: Power and heating plant		49,000.00
Other contents		12,000.00
South Engineering Building.	52,000.00	
Contents		Nil.
Gas House (with attached building)	2,800.00	
Contents		3,000.00
Athabasca Hall	247,700.00	
Contents		32,000.00
Assiniboia Hall	136,000.00	
Contents		12,180.00
Greenhouse	Nil	
Contents		Nil.
Temporary Forge shop	1,000.00	
Contents		1,000.00
President's Garage	1,000.00	
Contents		Nil.
Ice House	150.00	
Contents		Nil.
Storage Barn	400.00	
Contents		Nil.
Residence No. 1	10,000.00	
" 2	5,500.00	
" 3	6,500.00	
" 4	6,500.00	
" 5	5,000.00	
" 6	5,000.00	
" 7	6,000.00	
" 8	6,000.00	
" 9	5,000.00	
" 10	5,000.00	
" On 80th Avenue	5,000.00	
Contents		Nil.
Animal Husbandry Barn	14,000.00	
Contents (Live stock)		1,000.00
Live stock (In Schedule)		3,000.00
Superintendent's Residence	1,700.00	
Contents		Nil.
Dairy Building	400.00	
Contents		Nil.
Field Husbandry Barn	7,000.00	
Contents		1,000.00
Automobiles (4)		4,500.00
	<u>1,182,250.00</u>	<u>217,680.00</u>
	217,680.00	
	<u>1,399,930.00</u>	



Figure 1. The effect of the concentration of the  $\text{H}_2\text{O}_2$  solution on the amount of the released  $\text{H}_2\text{O}_2$  from the  $\text{H}_2\text{O}_2$ -loaded hydrogel. The amount of the released  $\text{H}_2\text{O}_2$  was measured by the amount of the released  $\text{H}_2\text{O}_2$  from the  $\text{H}_2\text{O}_2$ -loaded hydrogel. The amount of the released  $\text{H}_2\text{O}_2$  was measured by the amount of the released  $\text{H}_2\text{O}_2$  from the  $\text{H}_2\text{O}_2$ -loaded hydrogel.



UNIVERSITY OF ALBERTA.

SCHEDULE "A"

I N V E N T O R I E S

DECEMBER 31, 1920.

Field Husbandry . . . . .	\$3625.67
Animal Husbandry . . . . .	52308.20
Grounds . . . . .	4227.75
Extension . . . . .	10736.67
Electrical . . . . .	1548.48
Power Plant . . . . .	2138.45
Gas Plant . . . . .	163.00
Arts Building . Janitors.Stock.....	173.70
Bookstore . . . . .	24212.61
Printing Department . . . . .	8615.11
Works . . . . .	12117.85
Plumber . . . . .	1060.14
Blacksmith . . . . .	2189.75
Dining Room . . . . .	6706.12

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\$129,823.50



# I N V E N T O R Y.

DECEMBER 31, 1920.

## DEPT. OF FIELD HUSBANDRY.

### Machinery and Implements.

1	Disc Drill	35.00
1	Disc Harrow	25.00
1	Planet Junior Seeder	4.00
1	Cultivator	6.00
1	Threshing Machine	345.00
1	Gas Engine	200.00
1	Waggon	66.00
1	Set Scales	40.00
1	Plow	39.50
1	Drag Harrow	18.00
1	Potato Hoe	20.00
1	Cutting Box	25.00
1	Buggy	120.00
2	Bean Pickers	25.00
1	Land Packer	85.00
1	Mower	80.00
1	Strawberry Cultivator	15.00
1	Two Horse Cultivator	80.00
1	Trumbrel Cart	75.00
1	Planet Junior Seeder	25.00

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1328.50

### Field Equipment.

2	Tool Boxes	6.00
10	Canvas Sheets.	75.00
1	Planting Box	2.00
1	Lineing Board	1.75
	Label Stakes	64.50
48	Vegetable Crates	35.00
100	Grain Bags	10.70
	Sample Bags	65.00

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Carried forward . . . . .



## Field Husbandry No.2.

Brought Forward . . . . .

1	Spirit Level	3.50
4	Barrels	20.00
2	Water Pails	1.25
1	Hand Spray Pump	1.25
1	Lantern	1.50
1	Kerosene Can (1 gal.)	.50
2	" " (5 gal.)	3.00
3	Tin pails	2.00
1	Moth Catcher	8.00
500	Flour Sacks	3.50
450	4" Pots	18.00
250	5" "	15.00
135	doz. Flower pots	8.10

345.55

## Tools.

1	Hatchet	.50
2	Mallets	.50
2	Suckles, Whetstones	1.70
1	Scythe	2.50
1	Pair Wire Cutters-2 Hammers	
1	" Pliers 1 hand saw	8.50
2	Hand axes	8.50
1	Drawing Knife	2.00
1	Post hole auger	6.50
3	Forks	3.30
1	Grindstone	12.50
2	Hand hoes	5.00
2	Grub hoes	1.00
3	Spuds	1.50
3	Dutch Hoes	1.50
3	Iron Rakes	2.25
1	Branding Iron	2.25
2	Forks (3 tine)	1.50
2	" (manure)	2.65
3	Spades	1.75
1	shovel	1.00
2	Potato forks	1.75
1	Scythe	2.75

62.90

Carried forward . . . . .





Field Husbandry No.3.

Brought forward. . . . .

Laboratory Equipment,

1	Set Scales	4.50
1	" "	8.00
1	Dockage Scales	2.00
3	Half bushel measures	6.00
1	Germinator	60.00
1	Clipper mills, 26 sieves	16.50
1	Hardness Tester	35.00
6	Grading Sieves	3.50
6	Enamel Basins	2.00
5	" Pans	1.50
41	Grain Jars	40.00
2	Stands for Jars	1.00
1	Cabinet	8.50
1	Locker	12.50
75	Grain Bottles (square)	2.50
36	" " "	1.20
140	Bottles screw top	1.50
1	Set types of wheat	1.00
1	" " " barley	1.00
1	" " " Millet	1.00
4	Peeling knives, 56 white plates	8.10
500	tin cans	57.00
18	Ash cans	54.00
2	Dissecting outfirs	12.00
1	Camera and Accessories	185.00
4	Oil heaters	21.00
	Specimen Mounts	3.50
1	Seed Sampler	1.50
4	Doz. Mangifiers	18.00
1	Plant Press	3.00
4	doz. Ryker Mounts	18.00
2	lbs. Belt lacing	1.00
60	doz. sealers	65.00

656.30

Carried forward v... . . . .

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Field Husbandry No.4.

Brought forward . . . . .

Soils Management Equipment.

1	Extension	3.50
1	Soil Auger	7.00
6	" Pans	1.50
1	Sample soil carrying Outfit	3.70
6	Dissecting Microscopes	13.50
6	Dessicators	9.00
6	Percolation Plates	5.10
6	Soil Jars	.33
5	Evaporimeters	13.50
1	Support Block for same	1.60
6	Percolation tubes	10.50
6	Erlenmeyer flasks	.84
6	Mulch Cylinders	9.60
1	Soil thermometer	8.65
6	Moulds	1.20
1	Plasticity app.	2.35
6	Pestels	1.50
13	Graduates	9.60
24	Soil jars	1.30
1	Grinder	10.00
18	Graduates	13.50
2	Packages cork	1.20
1	lb. rubber stoppers	1.50
1	set sieves	10.70
12	spatulas	5.40
6	glass tubes	4.80
24	" "	21.60
1000	Labels	1.70
1	Spring board	6.70
24	soil pans	6.00
12	ft Rubber tubing	1.20
2	Capillary tubes	9.00
1	Germinating box	.70
6	Thermometers	10.80
1	Galv. Iron pan $41\frac{1}{2} \times 4 \times 3$	2.35
	Soil tube stand	
6	Tube brushes	3.00
6	Capillary tubes	6.60
6	Celluloid strips	3.60
1	Oven	25.00
18	Soil cans	15.30
1	Pan $2 \times 4 \times 3$	1.50

266.42

Carried forward . . . . .







Field Husbandry No. 5.

Brought forward . . . . .

Horses and Harness.

1	team Geldings	500.00
1	Horse	225.00
1	Set single harness	30.00
1	Cart Harness	50.00
1	Cultivator Harness	25.00
1	Set Double Harness	125.00
	Horse Collars, sweat pads	11.00

966.00

Total . . . . . \$3625.67

I HEREBY CERTIFY THAT THE FOREGOING IS A TRUE STATEMENT OF  
THE STOCK IN HAND OF THE FIELD HUSBANDRY DEPARTMENT., AS AT  
DECEMBER 31st, 1920.

Head of Field Husbandry Dept.

Brought forward . . . . .

OTHER AND REMARKS

100.00	Jan 1st
100.00	Jan 2nd
100.00	Jan 3rd
100.00	Jan 4th
100.00	Jan 5th
100.00	Jan 6th
100.00	Jan 7th
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100.00	Jan 16th
100.00	Jan 17th
100.00	Jan 18th
100.00	Jan 19th
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100.00	Jan 21st
100.00	Jan 22nd
100.00	Jan 23rd
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100.00	Jan 25th
100.00	Jan 26th
100.00	Jan 27th
100.00	Jan 28th
100.00	Jan 29th
100.00	Jan 30th
100.00	Jan 31st

100.00

100.00 . . . . .

I hereby certify that the above is a true and correct copy of the original report as filed in the office of the Secretary of the Department of the Interior, at Washington, D.C., on this 1st day of January, 1900.

DEPT. OF THE INTERIOR

# I N V E N T O R Y.

DEPARTMENT OF ANIMAL HUSBANDRY - DEC. 31. 1920.

## HORSES

<u>Reg. No.</u>	<u>Breed</u>	<u>Sex</u>	<u>Name</u>	<u>Value.</u>
5012	Percheron	Female	Nora Belle	900.00
6010	Percheron	Female	Opal	1000.00
39041	Clydesdale	"	Moss Rose	1000.00
42703	"	"	Peggy Bydaud	1000.00
2619	Belgian	"	Bessie D.	1000.00
2750	"	"	Ypres	1000.00
Grade R. 8 yrs.		"	Kate	250.00
" " " "		"	Gipsy	250.00
" " 11 "	Gray	Gelding	Shorty	130.00
" " 9 "	Black	"	Darky	130.00
" " 10 "	"	"	Nigger	130.00
" " 11 "	Bay	"	Tom	110.00
" " 8 "	Black	"	Tony	110.00
" " 7 "	Gray	Female	Nelly	75.00

## REGISTERED SHORTHORNS.

120250	Shorthorn	Male	Victory Supreme	1500.00
121582	"	Female	Roan Lady 9th	800.00
130463	"	"	" " 10th	800.00
120857	"	"	Golden Drop 3rd	1000.00
121554	"	"	Emma 60th	1000.00
130376	"	"	Spring Valley	
			Lovely	800.00
144351	"	"	Golden Drop 33rd	500.00
144350	"	"	Roan Lady 19th	400.00
162810	"	"	U. A. Roan Lady 29th	350.00
162584	"	"	" " " 30th	300.00
162809	"	"	" " " 100th	350.00
168549	"	"	" " " 101st	300.00
162812	"	"	" Golden Drop 43rd	350.00
168546	"	"	" " " 44th	300.00
162811	"	"	" Lovely 10th	350.00
168547	"	"	" Lovely 11th	300.00
144561	"	Male	" Emmas Supreme	150.00

## REGISTERED HEREFORDS.

22724	Herefords	Female	Lady Park	400.00
31216	"	"	Helen Brae	300.00
34036	"	"	Linda Fairfax	300.00
35440	"	"	Belle Donald 265th	500.00
35436	"	"	" " 269th	500.00
35093	"	Male	Willow Spring Radiol	1500.00
40385	"	"	U.A. Beau Perfection	100.00

# STATEMENT OF FINANCIAL OPERATIONS - 1911

Year	Name	Sex	Age	Rel. No.
1901	John Belle	Female	10	1
1902	Opal	Female	10	2
1903	John Belle	Female	10	3
1904	John Belle	Female	10	4
1905	John Belle	Female	10	5
1906	John Belle	Female	10	6
1907	John Belle	Female	10	7
1908	John Belle	Female	10	8
1909	John Belle	Female	10	9
1910	John Belle	Female	10	10
1911	John Belle	Female	10	11
1912	John Belle	Female	10	12
1913	John Belle	Female	10	13
1914	John Belle	Female	10	14
1915	John Belle	Female	10	15
1916	John Belle	Female	10	16
1917	John Belle	Female	10	17
1918	John Belle	Female	10	18
1919	John Belle	Female	10	19
1920	John Belle	Female	10	20
1921	John Belle	Female	10	21
1922	John Belle	Female	10	22
1923	John Belle	Female	10	23
1924	John Belle	Female	10	24
1925	John Belle	Female	10	25
1926	John Belle	Female	10	26
1927	John Belle	Female	10	27
1928	John Belle	Female	10	28
1929	John Belle	Female	10	29
1930	John Belle	Female	10	30
1931	John Belle	Female	10	31
1932	John Belle	Female	10	32
1933	John Belle	Female	10	33
1934	John Belle	Female	10	34
1935	John Belle	Female	10	35
1936	John Belle	Female	10	36
1937	John Belle	Female	10	37
1938	John Belle	Female	10	38
1939	John Belle	Female	10	39
1940	John Belle	Female	10	40
1941	John Belle	Female	10	41
1942	John Belle	Female	10	42
1943	John Belle	Female	10	43
1944	John Belle	Female	10	44
1945	John Belle	Female	10	45
1946	John Belle	Female	10	46
1947	John Belle	Female	10	47
1948	John Belle	Female	10	48
1949	John Belle	Female	10	49
1950	John Belle	Female	10	50
1951	John Belle	Female	10	51
1952	John Belle	Female	10	52
1953	John Belle	Female	10	53
1954	John Belle	Female	10	54
1955	John Belle	Female	10	55
1956	John Belle	Female	10	56
1957	John Belle	Female	10	57
1958	John Belle	Female	10	58
1959	John Belle	Female	10	59
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1961	John Belle	Female	10	61
1962	John Belle	Female	10	62
1963	John Belle	Female	10	63
1964	John Belle	Female	10	64
1965	John Belle	Female	10	65
1966	John Belle	Female	10	66
1967	John Belle	Female	10	67
1968	John Belle	Female	10	68
1969	John Belle	Female	10	69
1970	John Belle	Female	10	70
1971	John Belle	Female	10	71
1972	John Belle	Female	10	72
1973	John Belle	Female	10	73
1974	John Belle	Female	10	74
1975	John Belle	Female	10	75
1976	John Belle	Female	10	76
1977	John Belle	Female	10	77
1978	John Belle	Female	10	78
1979	John Belle	Female	10	79
1980	John Belle	Female	10	80
1981	John Belle	Female	10	81
1982	John Belle	Female	10	82
1983	John Belle	Female	10	83
1984	John Belle	Female	10	84
1985	John Belle	Female	10	85
1986	John Belle	Female	10	86
1987	John Belle	Female	10	87
1988	John Belle	Female	10	88
1989	John Belle	Female	10	89
1990	John Belle	Female	10	90
1991	John Belle	Female	10	91
1992	John Belle	Female	10	92
1993	John Belle	Female	10	93
1994	John Belle	Female	10	94
1995	John Belle	Female	10	95
1996	John Belle	Female	10	96
1997	John Belle	Female	10	97
1998	John Belle	Female	10	98
1999	John Belle	Female	10	99
2000	John Belle	Female	10	100

Year	Name	Sex	Age	Rel. No.
1901	Victory Supreme	Male	10	1
1902	Roan Lady 9th	Female	10	2
1903	" 10th	Female	10	3
1904	Golden Drop 8th	Female	10	4
1905	Emma 6th	Female	10	5
1906	Golden Drop 7th	Female	10	6
1907	Golden Drop 8th	Female	10	7
1908	Golden Drop 9th	Female	10	8
1909	Golden Drop 10th	Female	10	9
1910	Golden Drop 11th	Female	10	10
1911	Golden Drop 12th	Female	10	11
1912	Golden Drop 13th	Female	10	12
1913	Golden Drop 14th	Female	10	13
1914	Golden Drop 15th	Female	10	14
1915	Golden Drop 16th	Female	10	15
1916	Golden Drop 17th	Female	10	16
1917	Golden Drop 18th	Female	10	17
1918	Golden Drop 19th	Female	10	18
1919	Golden Drop 20th	Female	10	19
1920	Golden Drop 21st	Female	10	20
1921	Golden Drop 22nd	Female	10	21
1922	Golden Drop 23rd	Female	10	22
1923	Golden Drop 24th	Female	10	23
1924	Golden Drop 25th	Female	10	24
1925	Golden Drop 26th	Female	10	25
1926	Golden Drop 27th	Female	10	26
1927	Golden Drop 28th	Female	10	27
1928	Golden Drop 29th	Female	10	28
1929	Golden Drop 30th	Female	10	29
1930	Golden Drop 31st	Female	10	30
1931	Golden Drop 32nd	Female	10	31
1932	Golden Drop 33rd	Female	10	32
1933	Golden Drop 34th	Female	10	33
1934	Golden Drop 35th	Female	10	34
1935	Golden Drop 36th	Female	10	35
1936	Golden Drop 37th	Female	10	36
1937	Golden Drop 38th	Female	10	37
1938	Golden Drop 39th	Female	10	38
1939	Golden Drop 40th	Female	10	39
1940	Golden Drop 41st	Female	10	40
1941	Golden Drop 42nd	Female	10	41
1942	Golden Drop 43rd	Female	10	42
1943	Golden Drop 44th	Female	10	43
1944	Golden Drop 45th	Female	10	44
1945	Golden Drop 46th	Female	10	45
1946	Golden Drop 47th	Female	10	46
1947	Golden Drop 48th	Female	10	47
1948	Golden Drop 49th	Female	10	48
1949	Golden Drop 50th	Female	10	49
1950	Golden Drop 51st	Female	10	50
1951	Golden Drop 52nd	Female	10	51
1952	Golden Drop 53rd	Female	10	52
1953	Golden Drop 54th	Female	10	53
1954	Golden Drop 55th	Female	10	54
1955	Golden Drop 56th	Female	10	55
1956	Golden Drop 57th	Female	10	56
1957	Golden Drop 58th	Female	10	57
1958	Golden Drop 59th	Female	10	58
1959	Golden Drop 60th	Female	10	59
1960	Golden Drop 61st	Female	10	60
1961	Golden Drop 62nd	Female	10	61
1962	Golden Drop 63rd	Female	10	62
1963	Golden Drop 64th	Female	10	63
1964	Golden Drop 65th	Female	10	64
1965	Golden Drop 66th	Female	10	65
1966	Golden Drop 67th	Female	10	66
1967	Golden Drop 68th	Female	10	67
1968	Golden Drop 69th	Female	10	68
1969	Golden Drop 70th	Female	10	69
1970	Golden Drop 71st	Female	10	70
1971	Golden Drop 72nd	Female	10	71
1972	Golden Drop 73rd	Female	10	72
1973	Golden Drop 74th	Female	10	73
1974	Golden Drop 75th	Female	10	74
1975	Golden Drop 76th	Female	10	75
1976	Golden Drop 77th	Female	10	76
1977	Golden Drop 78th	Female	10	77
1978	Golden Drop 79th	Female	10	78
1979	Golden Drop 80th	Female	10	79
1980	Golden Drop 81st	Female	10	80
1981	Golden Drop 82nd	Female	10	81
1982	Golden Drop 83rd	Female	10	82
1983	Golden Drop 84th	Female	10	83
1984	Golden Drop 85th	Female	10	84
1985	Golden Drop 86th	Female	10	85
1986	Golden Drop 87th	Female	10	86
1987	Golden Drop 88th	Female	10	87
1988	Golden Drop 89th	Female	10	88
1989	Golden Drop 90th	Female	10	89
1990	Golden Drop 91st	Female	10	90
1991	Golden Drop 92nd	Female	10	91
1992	Golden Drop 93rd	Female	10	92
1993	Golden Drop 94th	Female	10	93
1994	Golden Drop 95th	Female	10	94
1995	Golden Drop 96th	Female	10	95
1996	Golden Drop 97th	Female	10	96
1997	Golden Drop 98th	Female	10	97
1998	Golden Drop 99th	Female	10	98
1999	Golden Drop 100th	Female	10	99
2000	Golden Drop 101st	Female	10	100

100.00	Help	Female	10	101
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100.00	Help	"	"	200



REGISTERED ABERDEEN ANGUS.

10883	Angus	Female	Elm Park Pride 15th	600.00
6671	"	"	" "Rosebud 16th	400.00
16001	"	"	Favorite of Willow Park	1000.00
24579	"	"	Sheatland Rosebud 3rd	200.00
24577	"	"	Wheatland Pride Lass	200.00
Not yet reg.	"	Male	U.A.Eureux Pride	100.00
5560	"	Female	Gipsy Maid	100.00

REGISTERED HOLSTEINS.

38351	Holstein	Male	Hulda Wayne's King Pontiac	300.00
7279	"	Female	" " Johanna Lass	200.00
37829	"	"	Rosebud Mutual DeKol	400.00
27827	"	"	Sady " "	400.00
37830	"	"	Lady Bonerges of Hillside	300.00
37432	"	"	Alberta Molly Fayne	250.00
63929	"	"	Rosebud Pontiac DeKol	200.00
63930	"	"	Lady Bonerges's Pontiac	150.00
76511	"	"	Hulda Pontiac Lass	150.00
72510	"	"	S.C. Kornayke	800.00
61138	"	"	S.C. DeKol	700.00
72511	"	"	S.C. Pietertie	600.00
76513	"	"	Rosebud Hulda Wayne	100.00
76512	"	"	Pontiac Hulda Wayne	100.00
Not yet reg.	"	"	Sady's 1920 Heifer	100.00
" " "	"	"	S.C. Pietertie's 1920 Heifer	100.00
" " "	"	Male	Hulda 1920 Male	100.00
" " "	"	"	S.C. DeKol 1920 Male	100.00

REGISTERED JERSEYS.

10457	Jersey	Male	Kentucky Wonder Lad	150.00
4858	"	Female	Gertrude Viola	150.00
5657	"	"	Gipsy Eureka	250.00
5529	"	"	Sultana 3rd	75.00
10013	"	"	U.A. Silk Gown	100.00
10014	"	"	U.A. " " 2nd	100.00
10018	"	"	Gipsy Eureka 2nd	125.00
10016	"	"	Golden Willow 4th	100.00
13167	"	"	U.A. Silk Gown 3rd	75.00
14801	"	"	U.A. Gipsy Eureka 3rd	50.00
14799	"	"	U.A. Silk Gown 4th	50.00
14800	"	"	U.A. Silk Gown 5th	50.00
13166	"	"	U.A. Sultana 4th	65.00

BEEF STEERS.

Pure Bred	Hereford	Steer	Curtice	200.00
"	"	"	Mace	175.00
"	"	"	Davidson	175.00
"	"	"	Smith	175.00
"	"	"	Pym	175.00
"	"	"	Wilson	150.00
"	"	"	F. Collaout	150.00
"	Angus	"	Richardson	175.00



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Kentucky Wonder Seed.  
Gertie Viola  
Early Purple  
Sultana Seed  
U.A. Silk Gown Seed  
Golden Willow Seed  
U.A. Silk Gown Seed  
U.A. Silk Gown Seed  
U.A. Silk Gown Seed  
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Pure Bred	Angus	Steer	Noad	125.00
"	"	"	Ellett	120.00
"	"	"	Loftus & Dickson	80.00
"	Shorthorn	"	Alberta Supreme	160.00
Grade	"	"	Marshall	100.00
"	Angus	"	Canada Land Co.	125.00
"	"	"	McGregor	100.00
Pure Bred	"	"	Noad	40.00
Grade	"	"	McGregor	30.00
"	Shorthorn	"	From Moss Cow	30.00
"	"	"	From Howes Cow	30.00
"	"	"	From Davidsons Cow	30.00
"	"	"	" Copsey light roan	25.00
"	"	"	" " dark "	25.00
"	"	"	" Teeples red & white	25.00
"	"	"	" McGovern dehorned	25.00

### GRADE COWS AND HEIFERS .

Grade	Holstein	Female	No.1 Barlow, Dark	100.00
"	"	"	No.2 Brown Cow	120.00
"	"	"	No.3 Brown Cow	120.00
"	"	"	No.1 Barlow Calf	30.00
"	"	"	No.2 Brown Yrlg. heifer	40.00
"	"	"	No.3. Brown calf	30.00
"	Angus	"	No.1 Day Cow	90.00
"	"	"	McGregor Cow	90.00
"	Hereford	"	Davidson Cow	110.00
"	Gaermseu	"	Bellous Cow	85.00
"	Shorthorn	"	Roan No.1 W.Smith	90.00
"	"	"	Red Cow V.W.Smith	110.00
"	"	"	Old Howes Cow	90.00
"	"	"	Fine Ross Cow No.1	90.00
"	"	"	Plainer Ross Cow No.2	90.00
"	"	"	McGovern Red & White	
			with horns	95.00
"	"	"	McGovern Roan dehorned	90.00
"	"	"	" Red	95.00
"	"	"	Copsey Roan Heifer	90.00
"	"	"	" dark roan	90.00
"	"	"	Mace Red cow	90.00
"	"	"	Howes Red Heifer	110.00
"	"	"	Collicutt Cow	100.00
"	"	"	McGovern Cow Yrlg.	40.00
"	"	"	Fine Ross Cow No.1 Yrlg.	40.00
"	"	"	Fine Ross Cow No.1 Calf	25.00

### SWINE.

54900	Berkshire	Sow	Iowana Belle 87th	225.00
54902	"	"	" Lady 117th	225.00
54903	"	"	" Bell 105th	225.00
54904	"	"	" Duchess 85th	200.00
56876	"	"	U.A. Rival Belle 4/20	75.00
56878	"	"	" " Lady 6/20	75.00
57527	"	"	" " Duchess 8/20	75.00





	57528	Berkshire	Sow	U.A. Rival Duchess 9/20	50.00
	57529	"	"	" " " 10/20	50.00
4	Gilts	"	"	Not yet reg. at \$40	160.00
2	Boars	"	Boars	" " " " \$40	80.00
	54899	"	"	Iowana Baron 48th	400.00
	57110	"	"	Caulico 20/20	50.00
		Tamworth	"	Paper not received	50.00
	3 Mature Tamworth Sows at \$70				210.00

8 Yrlg. Tamworth Sows at \$60 480.00

4 Mature Poland China Sows at \$50 200.00

4 Mature Duroc Jersey sows at \$50 200.00

56 Gilts all breeds for breeding - net yet reg. at \$20 1080.00  
 20 fattening pigs all breeds at \$25 500.00  
 20 fall shoters at \$12 240.00

# 11 SHEEP.

2385	Suffolk	Ewe	No. 20	20.00
2039	"	"	" 21	15.00
2393	"	"	" 22	20.00
2055	"	"	" 23	15.00
2883	"	"	" 1	30.00
3389	"	"	" 3	25.00
5388	"	"	" 4	25.00
Not reg.	"	"	Not named	12.00
3892	"	"	No. 5	25.00
3894	"	"	" 6	25.00
3895	"	"	" 7	25.00
4017	"	"	" 28	15.00
4021	"	"	" 29	15.00
4019	"	"	" 30	15.00
4020	"	"	" 31	15.00
4024	"	"	" 34	15.00
2878	"	Ram	" 43 '17	40.00
14573	Shropshire	Ewe	" 102	18.00
15831	"	"	" 101	25.00
11782	"	"	" 100	25.00
21174	"	"	" 1	15.00
887	Hampshire	"	" 13	25.00
889	"	"	" 15	25.00
883	"	"	" 9	20.00
885	"	"	" 11	25.00
884	"	"	" 10	40.00
1698	"	"	" 1	40.00
2001	"	"	" 2	40.00
2003	"	"	" 4	40.00
2004	"	"	" 5	30.00
2622	"	"	" 6	30.00
2623	"	"	" 7	30.00
2625	"	"	" 8	250.00
67954	"	"	2688 Can.	250.00
67955	"	"	2691 "	250.00





67972 (U.S.A)	Hampshire	Ewe	2692	Can	250.00
67984	"	"	2689	"	250.00
67985	"	"	2690	"	200.00
10 ewe lambs	"	No. 26, 31, 32, 33, 35, 39, 41, 42, 45, 46	at \$30		
4 ram lambs	"	" 30, 34, 36, 38,	at \$30		120.00
475	"	Ram	Telfer		30.00
20319 (U.S.A)	"	"	2693	Can	400.00
2626	"	"	No. 9		40.00
5575	Oxford	Ewe	" 77		20.00
5577	"	"	" 85		20.00
5580	"	"	" 90		20.00
2 not reg.	"	"	1918	at \$12	24.00
13757	"	"	No. 74		15.00
13752	"	"	" 5		15.00
13753	"	"	" 6		15.00
13756	"	"	" 7		15.00
4- 1920	"	Ewe lambs 25, 29, 30, 31,	at \$15		60.00
12407	Leicester	Ewe	No. 1		15.00
12408	"	"	" 2		15.00
12409	"	"	" 3		15.00
12410	"	"	" 4		15.00
13479	"	"	" 5		15.00
13480	"	"	" 6		15.00
13481	"	"	" 7		15.00
13482	"	"	" 8		15.00
15719	"	"	" 9		15.00
15724	"	"	" 12		15.00
15729	"	"	" 13		15.00
15726	"	"	" 14		15.00
15725	"	"	" 15		15.00
15727	"	"	" 16		15.00
7 - 1920	"	Ewe lambs 25, 26, 30, 32, 33, 39, 40	at \$12		84.00
13441	"	Ram	303	U	35.00
13482	"	"	No. 9		15.00
15721	"	"	" 19		12.00
5 - 1920	"	Ram lambs 27, 28, 34, 36, 37,	at \$12		60.00
47 Range ewes	at \$9				423.00
24 " Yrlgs.	at \$10				250.00
41 1920 ewe lambs	at \$10 (grades)				410.00
11 Pure bred Yrlg. and grade lambs (wethers)	at \$12				132.00

## 12. EQUIPMENT.

1	Potato plow	26.00
1	sulky plow	50.00
1	walking plow	10.00
1	breaking plow	5.00
1	gang plow 14"	125.00
1	engine gang 14"	250.00
2	sets lever harrows	at \$15 30.00
1	harrow cart	10.00
1	10-20 tractor	950.00
1	threshing belt	55.00
1	manure spreader	200.00
1	turnip sower	25.00
1	disk harrow	25.00
1	4-horse disk harrow	90.00
1	seed drill	40.00



1	4-horse seed drill	230.00
1	grass mower	35.00
1	sulky hay rake	15.00
1	self binder	170.00
1	stump puller	10.00
1	water tank wagon	20.00
3	farm wagons at \$35	105.00
1	democrat wagon	10.00
4	sets bob sleighs at \$20	80.00
1	light bob sleigh	20.00
1	land packer	80.00
1	dump cart	35.00
3	coal boxes at \$12	36.00
2	hay rakes at \$8	16.00
1	wagon box	5.00
4	sets whipple trees at \$3	12.00
4	neck yokes at \$1	4.00
2	chains at \$1	2.00
1	straw cutter	70.00
1	Blizzard ensilage cutter	250.00
1	fanning mill	25.00
1	grain grinder	40.00
1	turnip pulper	10.00
2	oval water tanks at \$15	30.00
2	feed cookers at \$10	20.00
1	feed cooker	20.00
1	Portable steel granary	90.00
1	spring tooth cultivator	100.00
1	potato cultivator	12.00
	Stable supplies	40.00
3	field hoes at 40 cents	1.20
3	platform scales at \$30	90.00
1	truck scale for pigs	45.00
	Dairy Equipment	20.00
1	cream separator	70.00
4	sets harness at \$30	120.00
1	set harness	75.00
1	set single harness	20.00
1	set driving harness	10.00
	Blankets, brushes, combs	75.00
1	cart saddle	8.00
1	buggy	35.00
1	pump engine	60.00
1	stock saddle	70.00
1	set show harness	250.00
	Herd book donated by Dominion Gov't.	120.00
	Laboratory equipment	250.00
	Lecture room equipment	250.00
	Live stock scales	160.00
2	stoves in pavilion	70.00
	Milk record closets	20.00
	Feed box cabinets	40.00
	Laboratory cabinets	40.00

### 13. FEED ON HAND.

40	tons alfalfa hay at \$27	1080.00
3	tons red top at \$17	51.00



1941-1942

100

20 tons prairie hay at 24.50	490.00
3½ tons oil cake at 83.00	290.00
250 tons silage at 5.00	1250.00
10 tons turnips at 5.00	50.00

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Total of Animal Husbandry	\$52308.20
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I HEREBY CERTIFY THAT THE FOREGOING IS A TRUE  
STATEMENT OF THE STOCK IN HAND IN THE DEPARTMENT OF ANIMAL  
HUSBANDRY AS AT DECEMBER 31, 1920.

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Head of the Department of Animal Husbandry.



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# I N V E N T O R Y .

DECEMBER 31, 1921.

## DEPARTMENT OF GROUNDS.

1000 plants @ 30¢	300.00
250 ft garden hose	30.00
3 Minimum thermometers @ \$1.50	4.50
2 Common thermometers	1.00
2 soil thermometers	2.50
1 spray pump	3.00
1 Greenhouse brass springs	8.00
2 pr. hedge pruning shears	3.00
5 small pruning shears	2.50
1 pruning saw	1.50
1 Tree pruner	3.00
9 Fumigating lamps	3.00
3 Watering cans	5.00
3 Lawn sprinklers	1.00
6 Snow shovels	9.00
2 Cutter scrapers	1.00
2 Bulldog sidewalk scrapers	1.00
2 sythes	4.00
1 brush sythe	1.00
1 harrow tooth cultivator	4.00
1 hand saw	2.00
2 sets leather boots for horses	8.00
2 pruning knives	3.00
4 digging forks	6.00
4 manure forks	6.00
600 stakes and labels	90.00
25 iron stakes	1.25
14 garden hoes	7.00
12 garden rakes	9.00
4 grass rakes	4.00
2 half moon edgers	1.00
2 pair blankets	10.00
4 hand axes	3.00
2 pick axes	2.00
2 mattocks	2.50
2 hand hammers	2.00
Sundries	5.00
Fence Pliers	2.00
1 Post maul	2.00
4 Grass catchers @ \$2.00	8.00
50 Potato sacks @ 10¢	5.00
1 Garden line reel	1.50
2 Norcross cultivators	3.00
2 Hay rakes	2.00
2 Brush hooks	2.00

2025 RELEASE UNDER E.O. 14176

Item	Quantity	Unit Price	Total Price
1.00	1.00	1.00	1.00
2.00	2.00	2.00	2.00
3.00	3.00	3.00	3.00
4.00	4.00	4.00	4.00
5.00	5.00	5.00	5.00
6.00	6.00	6.00	6.00
7.00	7.00	7.00	7.00
8.00	8.00	8.00	8.00
9.00	9.00	9.00	9.00
10.00	10.00	10.00	10.00
11.00	11.00	11.00	11.00
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78.00	78.00	78.00	78.00
79.00	79.00	79.00	79.00
80.00	80.00	80.00	80.00

Grounds 2.

Brought forward . . . . .

Chains and Clevises	12.00
4 Buckets	2.00

Nursery stock:

3300 Caragana 2 to 5 ft. @ 25¢	825.00
100 purple lilacs @ 50¢	50.00
175 Japanese " @ 50¢	87.50
50 Spiraea @ 50¢	25.00
500 Tartarian honeysuckle @ 20¢	100.00
200 Flowering current @ 50¢	100.00
250 Manitoba Maple 3' to 4' @ 20¢	50.00
60 Manitoba Maple 6' to 7' @ 50¢	30.00
250 American Elm 4' to 7' @ 50¢	125.00
1000 Green Ash 4' to 6' @ 25¢	250.00
60 Siberian Crab 4' to 7' @ \$1.00	60.00
250 Scotch & Hack Pine 2' to 4' \$1.00	250.00
100 Spruce 2' to 4' @ \$1.00	100.00
1200 Three year old: Willow; Cottonwood; Russian Poplar @ 20¢	240.00
200 Perennial flower roots @ 10¢	20.00

\$ 2904.75

I HEREBY CERTIFY THAT THE FOREGOING IS A TRUE STATEMENT  
OF THE STOCK ON HAND IN THE DEPARTMENT OF GROUNDS AS AT  
DECEMBER 31st., 1920.

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Head of Department.







I N V E N T O R Y.

DECEMBER 31, 1920.

DEPARTMENT OF EXTENSION - SUMMARY.

Travelling Library Division,

Books, supplies and equipment . . . . . \$10,590.31

Division of Visual Instruction,

Lantern Slides, Films and supplies . . . 10,211.67

Division of Debating & Public Discussion . . . . . 525.00

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\$21,326.98

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I HEREBY CERTIFY THAT THE ABOVE IS A TRUE STATEMENT OF THE  
AMOUNT OF STOCK ON HAND IN THE EXTENSION DEPARTMENT ON  
DECEMBER 31st, 1920.

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Director.

100-100000-100000

CONFIDENTIAL

SECRET

TRANSMITTED BY TELETYPE

TO DIRECTOR, FBI

FROM SAC, NEW YORK (100-100000)

URGENT 10-10-64

RE NEW YORK TELETYPE TO BUREAU, OCTOBER 9, 1964.

ADVISE BUREAU THAT SUBJECT IS CURRENTLY IN NEW YORK CITY.

END

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED  
DATE 10-10-64 BY 100-100000-100000

100-100000

# I N V E N T O R Y .

DECEMBER 31, 1920.

## EXTENSION DEPARTMENT.

1 Victor Safety Cinema and Case	200.00	
166 reels film	3000.00	
1 storage battery	50.00	
3 Motors	75.00	
2 Rheostats	20.00	
2 Aluminum repairers	7.50	
1 Rewinder	5.00	
1 Brass Repairer	14.00	
25 Film shipping boxes	25.00	
3 boxes A Lamps	7.50	
1 box C Lamps	3.00	
8 V. S. C. 12 v. lamps	24.00	
2 V. S. C. 110v. lamps	6.00	
2 V. S. C. Cases @ 8.50	17.00	
6 V.S. C. Belts	2.40	
1 Film rack	30.00	3486.40
Lantern slides at January 1, 1920.	2485.60	
purchased in 1920	1892.00	
25 slide shipping boxes @ 3.50	87.50	
10 " " " @ 6.30	63.00	
50 Double slide boxes	275.00	
100 Inner slide boxes	225.00	
6 Lanterns (Model B, and Generator)	270.00	
1 Home Balopticon	50.00	
1 Lantern Old style "Triumph"	17.00	
1 English lantern	20.00	
2 Model C Lanterns	70.00	
1 Model B electric	30.00	
1 Victor Acetylene lantern	30.00	
1 Victor Electric lantern	40.00	
1 high power dissolving lantern and accessories	100.00	
12 Acetylene Generators @ 16.00	192.00	
3 Rheostats	17.50	
2 Prestolite tanks	20.00	
Toynbee Stretcher and screen	25.00	
6 - 6' screens	20.00	
3 - 9' "	15.00	
1 - 6' " sateen on rollers	5.00	
1 roller blind screen	7.00	
4 slide carriers	10.00	
1 set electric fittings	5.75	
2 sets C electric fittings	20.50	
Condensers, burners and reflectors	35.00	

Carried forward.....

EXHIBIT

EXHIBIT

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100.00	41. 100.00
100.00	42. 100.00
100.00	43. 100.00
100.00	44. 100.00
100.00	45. 100.00
100.00	46. 100.00
100.00	47. 100.00
100.00	48. 100.00
100.00	49. 100.00
100.00	50. 100.00
100.00	51. 100.00
100.00	52. 100.00
100.00	53. 100.00
100.00	54. 100.00
100.00	55. 100.00
100.00	56. 100.00
100.00	57. 100.00
100.00	58. 100.00
100.00	59. 100.00
100.00	60. 100.00
100.00	61. 100.00
100.00	62. 100.00
100.00	63. 100.00
100.00	64. 100.00
100.00	65. 100.00
100.00	66. 100.00
100.00	67. 100.00
100.00	68. 100.00
100.00	69. 100.00
100.00	70. 100.00
100.00	71. 100.00
100.00	72. 100.00
100.00	73. 100.00
100.00	74. 100.00
100.00	75. 100.00
100.00	76. 100.00
100.00	77. 100.00
100.00	78. 100.00
100.00	79. 100.00
100.00	80. 100.00
100.00	81. 100.00
100.00	82. 100.00
100.00	83. 100.00
100.00	84. 100.00
100.00	85. 100.00
100.00	86. 100.00
100.00	87. 100.00
100.00	88. 100.00
100.00	89. 100.00
100.00	90. 100.00
100.00	91. 100.00
100.00	92. 100.00
100.00	93. 100.00
100.00	94. 100.00
100.00	95. 100.00
100.00	96. 100.00
100.00	97. 100.00
100.00	98. 100.00
100.00	99. 100.00
100.00	100. 100.00



Extension 2.

Brought forward. . . . .

1 - 1000 watt lamp and fitting	20.00	
2 - 110 v. lamps	12.00	
2 - 32 v. lamps	10.00	
1 - 6 v. lamps and fittings	12.00	
Posters	5.00	
Carbide	4.00	
2 sets Lantern slide shelves	60.00	
2 Lantern slide cabinets	100.00	6250.85

Total . . . . .	9737.25
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Photographic Department:

1 Cyclographic (wholeplate) camera	60.00	
Plate holders and sheaths		
(6).                      (20.)	23.30	
Copying and reducing plant	67.50	
Lantern slide printer	16.40	
Trays. 2 - 20 x 24	7.00	
2 - 8 x 10	2.50	
2 - 5 x 7	2.30	
Tanks, Print washer and two plate tanks	7.00	
1 Plate developing tank	7.00	
2 fixing tanks	7.00	
Scales 1 set	6.50	
Print Trimmer	5.00	
Small brushes	1.40	
Flat Brush	1.50	
Orange glass	1.00	
Perrottype Plate	2.25	
1 Color screen	1.50	
1 Eastman Timer	4.00	
3 Glass graduated	1.00	
3 glass funnels	2.00	
1 flash light	1.25	
4 plate racks	3.00	
1 set lantern slide colors	6.50	
Printing frames	3.00	
Thermometer	.75	240.65

STOCK .

## Plates:

3 cases process	)	
1 case polychrome		70.00
3 1/2 cases lantern slides		45.00
1 case seed R.		25.00
5 pkts 4' lantern slides		3.25
1/2 doz. whole plates		1.25

C carried forward.....





Extension 3.

Cover Glass 3/4 case.	16.00
6 doz. American size	2.40
Films	
2 1/2 doz. 1/1 Portrait	5.50
3 doz. 5 x 7	4.35
Paper etc.	
1 roll bromide	2.55
Azo 1/1	2.00
Azo 5 x 7 Soft	2.00
Azo 5 x 7 H.X.	4.00
20 doz. Lantern slide masks	5.00
Tape binding	5.00
Binding Strips	2.00
Spot labels	5.00
Chemicals (total)	53.22
Filter Paper	.25

\$233.77

TOTAL . . . . . 474.42



Extension 4.

Travelling Libraries.

11512 vols. at an average price of 90¢	10,360.00
648 book supports @ 12¢ each	77.76
800 Application cards	4.80
25 T.L. Leaflets (How to secure)	.25
400 " " (Instructions to custodians)	4.00
250 Record of Members	2.50
160 Window cards	2.60
200 Reply P.C's (Notice of shipment)	5.40
200 " " (Due notice)	5.40
150 Gummed labels	.15
1000 Register cards	5.00
9000 Catalogue cards (white)	25.00
100 cards (salmon)	.30
300 " (Blue)	.90
500 Book cards	2.50
350 Periodical Cards	1.20
20 Periodicals for 1920 at average of \$2.50 each	25.00
250 plays at average of 15¢ each	67.50

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10,590.31

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Extension 5.

Debating and Public Discussion.

525 Packages of material for debaters at \$1.00 each \$525.00

3. 1914

1914-1915

1914-1915 1914-1915 1914-1915 1914-1915 1914-1915 1914-1915 1914-1915 1914-1915 1914-1915 1914-1915

I N V E N T O R Y.

DECEMBER 31, 1920.

ELECTRIC STOCK.

Lamps	690.30
Shades	42.40
Fuses	225.60
Fuse Renewals	34.00
Switches	28.30
Sockets	71.80
Brushes	27.23
Auto Starter parts	20.00
Stove parts	104.05
Wire	51.80
Conduit, etc.	61.60
Miscellaneous,	191.40

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1548.48

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I HEREBY CERTIFY THAT THE ABOVE IS A TRUE STATEMENT OF THE  
ELECTRIC STOCK IN HAND DECEMBER 31 st, 1921.

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Superintendent of Construction.

EXPENSES

DECEMBER 31, 1930.

GENERAL

890.30	Lamps
41.43	Gas
144.10	Travel
24.18	Postals
18.75	Postage
71.80	Books
27.23	Stationery
20.00	Auto Starfax parts
24.00	Phone bills
21.80	Wire
22.22	Insurance, etc.
101.40	Miscellaneous

1641.21

I HEREBY CERTIFY THAT THE ABOVE IS A TRUE STATEMENT OF THE  
EXPENSES MADE IN THE MONTH OF DECEMBER 1930.

\_\_\_\_\_  
MANAGER OF THE COMPANY

# INVENTORY.

DECEMBER 31, 1920.

## POWER PLANTS NO. 1 AND 2.

80 tons Dadomin Coal @ 9.00	} P. Plant	720.00
60 tons Pea Coal @ \$4.50	} No. 1	270.00
60 tons Pea Coal @ \$4.50	} P. Plant	270.00
70 tons slack coal @ \$2.50	} No. 2	175.00
20 Gallons Cylinder oil @ \$1.26		25.20
25 " Engine oil @ 1.56		39.00
80 lbs waste @ 25		20.00
Spiral packing to value of		50.00
6 Manhole gaskets		9.00
18 Gauge glasses 11 x 3/4" @ .75		13.50
4 Gauge glass cocks 2.00		8.00
2 4" x 16' Boiler tubes @ 9.00		18.00
1 Weit Pump valve		7.00
2 Sacks fireclay @ 4.00		8.00
1 Enamelled sink, iron		7.00
200 baffle bricks		60.00
400 Arch bricks		120.00
3 Ash cans		15.00
4 Steel wheel barrows		20.00
3 corm brooms		3.75
1 10" Pressure gauge		30.00
Spare parts of engines and boilers to value of approximately		250.00

Total

2,138.45

I HEREBY CERTIFY THAT THE FOREGOING IS A TRUE STATEMENT OF  
THE STOCK IN HAND OF THE POWER PLANTS NO. 1 and NO. 2,  
AS AT DECEMBER 31st, 1920.

Resident Engineer.



[illegible]

*Journal of Management Studies*, 19(1), 67-80.

[illegible][illegible]

CA. 881, 2

1. What is the main purpose of the study?

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED  
DATE 08-01-2001 BY 60322 UCBAW/STP

Figure 1. Schematic diagram of the experimental setup. The subject is seated in a chair and views the target through a video camera. The target is a light source that is controlled by a computer. The subject's hand is positioned over the target. The target is a light source that is controlled by a computer. The subject's hand is positioned over the target. The target is a light source that is controlled by a computer. The subject's hand is positioned over the target.

I N V E N T O R Y .

DECEMBER 31, 1920.

GAS PLANT.

10,000 lbs of Coal @ \$6.00	\$30.00
350 Gallons coal oil @ 38¢ per Gal.	133.00

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\$ 163.00

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I HEREBY CERTIFY THAT THE ABOVE IS A TRUE STATEMENT OF  
THE STOCK ON HAND IN THE GAS PLANT AS AT DECEMBER 31st., 1920.

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Resident Engineer.

INTRODUCTION

CHAPTER I

THEORY

1. The first part of the book is devoted to a general survey of the subject. It is divided into two main sections: the first dealing with the general principles of the subject, and the second dealing with the special principles of the subject.

CHAPTER II

THEORY

The second part of the book is devoted to a detailed study of the subject. It is divided into two main sections: the first dealing with the general principles of the subject, and the second dealing with the special principles of the subject.

CHAPTER III

I N V E N T O R Y.

DECEMBER 31, 1920.

ARTS STOCK.

200 cakes Handy Soap @ \$2.50	5.00
100 lbs. Dust-bane @ 3¢ lb	3.00
4 cases Onliwon @ \$18.00	72.00
120 lbs. Old English Flo r Wax @ 61¢ lb	73.20
200 lbs. Old Dutch Cleanser @ 8¢ lb	16.00
2 only Deck mops @ 1.50	3.00
6 only scrub brushes @ \$3.00 per doz.	1.50

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\$173.70

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I HEREBY CERTIFY THAT THE FOREGOING IS A TRUE STATEMENT  
OF THE STOCK IN HAND OF THE JANITOR'S STOCK IN THE ARTS  
BUILDING AS AT DECEMBER 31, 1920.

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Head Janitor.

Inventory

Assets

200 cases Handy Soap @ \$8.50	5.00
100 lbs. Nut-bone @ 8¢ lb	2.00
4 cases Orange @ 2.50 ea	10.00
100 lbs. Old Dutch Cleanser @ 8¢ lb	16.00
2 only case soap @ 1.00	2.00
6 only scrub brushes @ \$2.00 per doz.	1.50

BUILDING AS AT DECEMBER 31, 1930.



# INVENTORY.

DECEMBER 31, 1920.

## BOOKSTORE.

Latin Books.	Rate.	Total.
48 Bennetts New Latin Comp	1.25	60.00
7 White Latin Dictionary	.80	5.60
4 Lewis " "	2.00	8.00
13 Cassells " "	2.50	32.50
3 Sanays Ciserous	3.75	11.25
1 Lucetius	.	2.25
2 Quintillian	.45	.90
2 Walter Latin Prose	.45	.90
2 Livy Books 11 and 12	1.10	5.50
2 Horace Epistles	1.50	3.00
2 Cicero Tuscular Disputations	1.50	3.00
27 Latin Vocabulary	.10	3.70
2 Livy book No. 11	.50	1.00
8 Horace Odes (Moore)	1.50	12.00
8, Livy Selections	.60	4.80
7 " "	.25	1.75
2 Tacitus Dialogues	1.00	2.00
2 Vergil Books 1 to 6 (Knapp)	.40	.80
4 Lucitus book #5	.50	2.00
66 Vergil Bucplios & Georgics	.75	49.50
7 " Books 5 to 6	.75	5.25
5 Letters Cicero	1.60	8.00
5 Catullus (Merrill)	1.70	8.50
7 Horace Odes Bk. 3	.50	3.50
39 Cicero Prolege Mamilia	.45	17.55
1 Bennetts Latin Writer	.	1.00
1 Lucietti	.	.75
1 Tacitus Agricola	.	1.40
1 Cicero Pro Clutio	.	1.25
2 Vergil Book 2	.50	1.00
14 Seneca Summers	1.75	24.50
2 Horace Odes Page	1.50	3.00
3 Vergil Books 10 & 12	.50	1.50
7 Satires of Juvanel	3.00	21.00

Carried forward . . . . .

\$ 308.65

# INVENTORY

Inventory of 1941

Inventory

Item	Quantity	Unit Price	Total Price
1. 100 lbs. of 100% Wool	100	1.00	100.00
2. 50 lbs. of 100% Wool	50	1.00	50.00
3. 25 lbs. of 100% Wool	25	1.00	25.00
4. 12 1/2 lbs. of 100% Wool	12.5	1.00	12.50
5. 6 1/4 lbs. of 100% Wool	6.25	1.00	6.25
6. 3 1/8 lbs. of 100% Wool	3.125	1.00	3.125
7. 1 5/8 lbs. of 100% Wool	1.5625	1.00	1.5625
8. 7/8 lbs. of 100% Wool	0.875	1.00	0.875
9. 3/4 lbs. of 100% Wool	0.75	1.00	0.75
10. 150 lbs. of 100% Wool	150	1.00	150.00
11. 75 lbs. of 100% Wool	75	1.00	75.00
12. 37 1/2 lbs. of 100% Wool	37.5	1.00	37.50
13. 18 3/4 lbs. of 100% Wool	18.75	1.00	18.75
14. 9 3/8 lbs. of 100% Wool	9.375	1.00	9.375
15. 4 5/8 lbs. of 100% Wool	4.6875	1.00	4.6875
16. 2 1/4 lbs. of 100% Wool	2.34375	1.00	2.34375
17. 1 1/4 lbs. of 100% Wool	1.25	1.00	1.25
18. 3/4 lbs. of 100% Wool	0.75	1.00	0.75
19. 150 lbs. of 100% Wool	150	1.00	150.00
20. 75 lbs. of 100% Wool	75	1.00	75.00
21. 37 1/2 lbs. of 100% Wool	37.5	1.00	37.50
22. 18 3/4 lbs. of 100% Wool	18.75	1.00	18.75
23. 9 3/8 lbs. of 100% Wool	9.375	1.00	9.375
24. 4 5/8 lbs. of 100% Wool	4.6875	1.00	4.6875
25. 2 1/4 lbs. of 100% Wool	2.34375	1.00	2.34375
26. 1 1/4 lbs. of 100% Wool	1.25	1.00	1.25
27. 3/4 lbs. of 100% Wool	0.75	1.00	0.75
28. 150 lbs. of 100% Wool	150	1.00	150.00
29. 75 lbs. of 100% Wool	75	1.00	75.00
30. 37 1/2 lbs. of 100% Wool	37.5	1.00	37.50
31. 18 3/4 lbs. of 100% Wool	18.75	1.00	18.75
32. 9 3/8 lbs. of 100% Wool	9.375	1.00	9.375
33. 4 5/8 lbs. of 100% Wool	4.6875	1.00	4.6875
34. 2 1/4 lbs. of 100% Wool	2.34375	1.00	2.34375
35. 1 1/4 lbs. of 100% Wool	1.25	1.00	1.25
36. 3/4 lbs. of 100% Wool	0.75	1.00	0.75
37. 150 lbs. of 100% Wool	150	1.00	150.00
38. 75 lbs. of 100% Wool	75	1.00	75.00
39. 37 1/2 lbs. of 100% Wool	37.5	1.00	37.50
40. 18 3/4 lbs. of 100% Wool	18.75	1.00	18.75
41. 9 3/8 lbs. of 100% Wool	9.375	1.00	9.375
42. 4 5/8 lbs. of 100% Wool	4.6875	1.00	4.6875
43. 2 1/4 lbs. of 100% Wool	2.34375	1.00	2.34375
44. 1 1/4 lbs. of 100% Wool	1.25	1.00	1.25
45. 3/4 lbs. of 100% Wool	0.75	1.00	0.75
46. 150 lbs. of 100% Wool	150	1.00	150.00
47. 75 lbs. of 100% Wool	75	1.00	75.00
48. 37 1/2 lbs. of 100% Wool	37.5	1.00	37.50
49. 18 3/4 lbs. of 100% Wool	18.75	1.00	18.75
50. 9 3/8 lbs. of 100% Wool	9.375	1.00	9.375
51. 4 5/8 lbs. of 100% Wool	4.6875	1.00	4.6875
52. 2 1/4 lbs. of 100% Wool	2.34375	1.00	2.34375
53. 1 1/4 lbs. of 100% Wool	1.25	1.00	1.25
54. 3/4 lbs. of 100% Wool	0.75	1.00	0.75
55. 150 lbs. of 100% Wool	150	1.00	150.00
56. 75 lbs. of 100% Wool	75	1.00	75.00
57. 37 1/2 lbs. of 100% Wool	37.5	1.00	37.50
58. 18 3/4 lbs. of 100% Wool	18.75	1.00	18.75
59. 9 3/8 lbs. of 100% Wool	9.375	1.00	9.375
60. 4 5/8 lbs. of 100% Wool	4.6875	1.00	4.6875
61. 2 1/4 lbs. of 100% Wool	2.34375	1.00	2.34375
62. 1 1/4 lbs. of 100% Wool	1.25	1.00	1.25
63. 3/4 lbs. of 100% Wool	0.75	1.00	0.75
64. 150 lbs. of 100% Wool	150	1.00	150.00
65. 75 lbs. of 100% Wool	75	1.00	75.00
66. 37 1/2 lbs. of 100% Wool	37.5	1.00	37.50
67. 18 3/4 lbs. of 100% Wool	18.75	1.00	18.75
68. 9 3/8 lbs. of 100% Wool	9.375	1.00	9.375
69. 4 5/8 lbs. of 100% Wool	4.6875	1.00	4.6875
70. 2 1/4 lbs. of 100% Wool	2.34375	1.00	2.34375
71. 1 1/4 lbs. of 100% Wool	1.25	1.00	1.25
72. 3/4 lbs. of 100% Wool	0.75	1.00	0.75
73. 150 lbs. of 100% Wool	150	1.00	150.00
74. 75 lbs. of 100% Wool	75	1.00	75.00
75. 37 1/2 lbs. of 100% Wool	37.5	1.00	37.50
76. 18 3/4 lbs. of 100% Wool	18.75	1.00	18.75
77. 9 3/8 lbs. of 100% Wool	9.375	1.00	9.375
78. 4 5/8 lbs. of 100% Wool	4.6875	1.00	4.6875
79. 2 1/4 lbs. of 100% Wool	2.34375	1.00	2.34375
80. 1 1/4 lbs. of 100% Wool	1.25	1.00	1.25
81. 3/4 lbs. of 100% Wool	0.75	1.00	0.75
82. 150 lbs. of 100% Wool	150	1.00	150.00
83. 75 lbs. of 100% Wool	75	1.00	75.00
84. 37 1/2 lbs. of 100% Wool	37.5	1.00	37.50
85. 18 3/4 lbs. of 100% Wool	18.75	1.00	18.75
86. 9 3/8 lbs. of 100% Wool	9.375	1.00	9.375
87. 4 5/8 lbs. of 100% Wool	4.6875	1.00	4.6875
88. 2 1/4 lbs. of 100% Wool	2.34375	1.00	2.34375
89. 1 1/4 lbs. of 100% Wool	1.25	1.00	1.25
90. 3/4 lbs. of 100% Wool	0.75	1.00	0.75
91. 150 lbs. of 100% Wool	150	1.00	150.00
92. 75 lbs. of 100% Wool	75	1.00	75.00
93. 37 1/2 lbs. of 100% Wool	37.5	1.00	37.50
94. 18 3/4 lbs. of 100% Wool	18.75	1.00	18.75
95. 9 3/8 lbs. of 100% Wool	9.375	1.00	9.375
96. 4 5/8 lbs. of 100% Wool	4.6875	1.00	4.6875
97. 2 1/4 lbs. of 100% Wool	2.34375	1.00	2.34375
98. 1 1/4 lbs. of 100% Wool	1.25	1.00	1.25
99. 3/4 lbs. of 100% Wool	0.75	1.00	0.75
100. 150 lbs. of 100% Wool	150	1.00	150.00

Inventory of 1941

Bookstore 2.

Brought forward . . . .		308.65
58 Allen & Greeroughs Latin	1.40	81.20
43 Term of Ovid	.85	36.55
7 Annals of Tacitus	1.25	8.75
50 Pliny's letters	.90	45.00
3 Propertius select elegies	1.25	3.75
3 " Cam.	.75	2.25
18 Tactus	1.50	18.00
11 Persius Juvenalis	.75	8.25
126 Horace Odes Bks. 1 & 2		63.00
6 Cicero Catilinarian Orations	.60	9.60
16 Select Epigrams Marshall	1.00	16.00
2 Lucetius Books 1 & 2	.90	1.80
1 Ovid (Wilkinson)		.40
4 Essays Seneca	.60	2.40
4 Sallust	1.10	4.40
21 Vergil Bk. 9 (Haigh)	.40	8.40
67 Nuttings Latin Comp.	1.25	83.75
8 Inglis & Prettyman 1st Bk. Latin	1.55	12.40
Italian:		
12 Italian Comp	.50	6.00
8 " Readers	.90	7.20
10 Italian Grammar	.90	9.00
Political Economy:		
3 Todds Mechanism of Exchange	2.50	7.50
10 Guides Political Economy	3.60	36.00
3 Lloyds Trade Unionism	1.20	3.60
1 Labour Problems		.15
4 Marx Communist Manifests	.20	.80
11 Warners Landmarks	1.90	20.90
2 Browns Transportation Rates	1.60	3.20
9 Bastables International Trade	1.50	13.50

Carried forward . . . . .

18-0753

Figure 1. Schematic diagram of the experimental setup.

[illegible]

..... Brownell Salinas



Bookstore: 3..

Brought forward.....

9 Homers Edyssey	1.10	9.90
4 Euripides Hippolytus	1.50	6.00
6 Plato Apology Socrates	.90	5.40
6 Homers Odyssey 7 to 12	.80	4.80
2 Aristotlis	2.00	4.00
2 Aristoptis Book 1	.90	1.80
6 " " 2	.90	5.40
3 Euripides Alcestis	1.25	3.75
3 " "	.50	1.50
13 Bevier Greek Synatax	.90	11.70
4 Formans " Book	1.20	4.80
7 Thucidides (Marchant)	.90	6.30
6 Euripides Ton.	.60	3.60
3 Pitmans Greek Prose	.60	1.80
6 Bryant & Lake Greek Grammar	.60	3.60
6 Sophocles (Zebb)	1.50	9.00
3 Aeschylis Tragoediae	.90	2.70
1 Ethics of Aristotles	2.75	2.75
3 Meded of Euripides	.40	1.20
4 Platonis	1.50	6.00
3 Thucydides Books 5 to 8	.90	2.70
3 Herodotus Books 7 & 8	1.75	5.25
5 Zenophan (Marshall)	1.10	5.50
4 The Birds	.90	3.60
2 The Frogs	.75	1.50
1 The Knights	.75	.75
3 Aeschylus (Sykes & Wilson)	.65	1.95
3 " (Sidgwick)	.75	2.25
6 Homer Odyssey Bk. 6	.40	2.40
4 Tales from Herodotus	.30	1.20
6 Homes Iliad Bk. 6	.30	1.80
2 Lysias Bk. 16	1.25	2.50
2 Theocritus	1.10	2.20
5 The Crito of Plato	.65	3.25
10 Odd Greek Books		8.60

Carried forward.....



\*\*\*\*\*

0.0	0.0	0.0	0.0
0.1	0.1	0.1	0.1
0.2	0.2	0.2	0.2
0.3	0.3	0.3	0.3
0.4	0.4	0.4	0.4
0.5	0.5	0.5	0.5
0.6	0.6	0.6	0.6
0.7	0.7	0.7	0.7
0.8	0.8	0.8	0.8
0.9	0.9	0.9	0.9
1.0	1.0	1.0	1.0
1.1	1.1	1.1	1.1
1.2	1.2	1.2	1.2
1.3	1.3	1.3	1.3
1.4	1.4	1.4	1.4
1.5	1.5	1.5	1.5
1.6	1.6	1.6	1.6
1.7	1.7	1.7	1.7
1.8	1.8	1.8	1.8
1.9	1.9	1.9	1.9
2.0	2.0	2.0	2.0
2.1	2.1	2.1	2.1
2.2	2.2	2.2	2.2
2.3	2.3	2.3	2.3
2.4	2.4	2.4	2.4
2.5	2.5	2.5	2.5
2.6	2.6	2.6	2.6
2.7	2.7	2.7	2.7
2.8	2.8	2.8	2.8
2.9	2.9	2.9	2.9
3.0	3.0	3.0	3.0
3.1	3.1	3.1	3.1
3.2	3.2	3.2	3.2
3.3	3.3	3.3	3.3
3.4	3.4	3.4	3.4
3.5	3.5	3.5	3.5
3.6	3.6	3.6	3.6
3.7	3.7	3.7	3.7
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Bookstore 13.

Brought forward.....

57 Rogers Students Philosophy	2.65	151.05
3 Hobbhouse evolution	4.00	12.00
3 Bergsons Creative evolution	3.25	9.75
7 Jevons Logic	.45	3.35
6 Perry	4.50	27.00
15 Thorndikes Individuality	.35	42.50

History:

1 Life of Daneon		.50
1 Bacon to Halifax		.35
2 Hutton's Land	1.00	2.00
2 Traills Srafford	1.00	2.00
8 Steeds Hapsburg Monarchy	2.00	16.00
4 Lichtenberger Germany & its Evolution	2.50	10.00
27 Bismarck	2.50	67.50
3 Davis Roman Empire	.65	1.95
25 Life & Letters of Erasmus	1.40	42.50
20 Gardners 20 Years war	.80	16.00
2 Self Government in Canada	1.25	2.50
2 England under the Hanoverians	3.00	6.00
1 Bodleys France		3.00
3 George 3rd & Charles Fox	2.00	6.00
2 Barbarian Invasion of Italy	.75	1.50
2 Maitlands Constitutional History of England	3.75	7.50
13 Liberation of Italy	1.60	10.80
36 Robinson & Baird Modern Europe Vol.1	2.10	75.60
29 " " " " 2	2.25	65.25
1 Ilberts Parliament		.35
17 England under the Normans	2.65	44.75

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# Bookstore 14.

Brought forward.....

15	England in the later Middle Ages	2.75	41.25
9	England before the Norman Conquest	2.75	24.75
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7	Lucas History of Canada	4.00	28.00
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1	The German Empire House of Destiny		.60
1	Coar's Democracy of the War		1.25
11	Adams & Stephens select Documents	2.75	30.25
22	Lord Durham's Report	2.00	44.00
5	Edgertons British Colonial Pot.	1.10	5.50
5	Powers the Things Men Fight for	1.75	8.75
2	Spencers Man versus State	2.00	4.00
14	Fishers Republican Tradition in Europe	1.76	24.50
9	Lowells Greater European Governmen's	1.60	14.40
12	Burg's History of Greece	.90	10.80
10	Johnson's Europe in 16th Century	1.50	15.00
5	Botsford's History of Rome	1.10	5.50
2	Adams European History	1.40	2.80
5	Whitman's " "	1.40	7.00
3	Lodge's Close of Middle ages	1.95	5.25
16	Readings on American Federal Gov.	3.50	56.00
23	Kennedy's Documents	4.00	92.00
56	Lindsays History of Reformation	2.75	154.00
83	Gardiners Students History Vol.2	1.50	124.50
70	" " "	1.60	112.00
46	Gardiners Atlas	1.35	62.10
31	Hazen Europe Since 1815	3.25	100.75
23	Gardner Vol.3	1.60	36.80
65	Protestant Revolytion	.80	52.00

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Bookstore 15.

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28 Edgerton Canada under British Rule	1.75	39.00
30 Lucas New French	1.90	57.00

English.

76 Desk book for Journalists	.30	22.00
4 Locieritici	1.80	7.20
2 English Critical Essays	.40	1.60
2 Jane Eyre	.35	.70
27 MacBeth	.75	40.25
26 Carlyles Past & Present	.50	13.00
34 Newmans University subjects	.75	26.00
1 As you Like it	.35	.35
39 Mills Militarism	.65	25.35
26 Ruskins Essays	1.10	28.60
23 Newmans Apologies	1.25	28.75
6n Chief Elizabethan Dramatist	3.00	18.00
5 Newmans Apology	1.25	6.25
43 Broadus & Gordon's English Prose	1.75	75.25
9 Poems of Milton	1.00	9.00
19 Century Handbook of Writing	1.10	20.90
10 Oxford Poets	.90	9.00
9 Brownings Poems	2.75	24.75
282 Shakespeare's Plays	.60	169.20
6 Selections & Essays	1.10	6.60
24 Carlyle Hero's & Hero Worship	1.25	30.00
4 " " " Everymans	.65	2.60
4 Treble English Prose	.40	1.60
35 Huxley's Lay Sermons	.65	22.75
26 Carlyle's Sartor Resartus	1.25	32.50
24 Selections from Arnold	1.10	37.40
27 Worlds Classics	.45	13.35
48 Harrick & Damon New Comp.	1.25	60.00

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Bookstore 16.

Brought forward.....

29	Roe & Elliot English Prose	1.75	40.75
40	Romeo & Juliet	.40	1.60
4	Drydens Essays	.50	2.00
2	English Poets of 19th Century	.75	1.50
107	Pocket Classics	.25	26.75
18	Burks Conciliation	.15	2.70
5	Specimens Prose Comp.	1.25	6.25
3	Morris Specimens Early English	2.25	6.75
2	Morris & Skeat " "	2.25	4.50
3	Pilgrims Progress	.35	1.05
4	Elliot's Middlemarch	.60	2.40
124	Studies in Oral English	.25	31.00
11	Moody & Lovet English Literature	1.75	19.25
9	McCauleys Historical Essays	.35	3.15

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15	Zeits Autopsy Protocols	3.75	11.25
8	Development of the Chick	4.00	36.00
18	Prentiss Embryology	4.25	76.50
3	MacFarlanes Bacteriology	4.00	12.00
1	Practical Obstetrics		6.00
6	MacCallum's Pathology	8.00	48.00
11	Prentiss Embryology	4.25	46.75
4	Wells Chemical Pathology	4.25	17.00
20	Hawkes Chemistry	5.00	100.00
9	Reese Embryology	1.50	13.50
25	Lillies Lab. outline Embryology	.40	10.00
5	Aids to Pathology	1.50	7.50
5	Bastedo Materia Medica	4.50	22.50
17	Bna.	1.50	25.50
11	Gordon's Histology	5.00	55.00
13	Osler's Practice of Medicine	6.50	19.50
2	Gould's Surgical Diagnosis	4.00	8.00

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4 Stitts Bacteriology	2.50	10.00
7 Marshall Micro Biology	3.50	24.50
4 Goulds Medical Dictionary	2.00	8.00
20 Hewletts Pathological Physiology	7.50	150.00
21 Herricks Neurology	2.00	42.00
45 " & Crosby's Neurology	1.00	45.00
9 McFarlane's Bacteria	4.75	42.75
5 Roe's & Carliss Surgery	8.00	40.00
23 Gray's Anatomy	9.00	207.00
30 Villigers Brain & Spinal Cord	4.50	135.00
10 MacLeod's Physiology	9.00	90.00
9 Mathews Physiological Chemistry	6.50	58.50
11 Stewarts Physiology	6.50	71.50
9 Howells "	6.50	58.50
11 Solomans Pharmacology	5.50	60.50
22 Exercises in "	.25	5.50
33 Pathological Chemistry	.30	9.90
7 Rewelings Surface Markings	1.75	12.25
14 MacKenzies Synptoms	3.75	52.50
26 Cole Physiological Chemistry	3.75	97.50
13 Burton & Optiz Physiology	8.25	107.25
40 Splanchnology outlines	.50	20.00
64 Histology outlines	.50	32.00
15 Cunninghams Anatomy Vol.1	4.25	63.75
29 Cunninghams Anatomy Vol.2	4.25	122.25
37 Cunninghams Anatomy Vol.3	4.00	148.00

Geology:

10 Shinnars Fossils	3.25	32.50
3 Woods Palaeontology	4.25	12.75
4 Lewis Mineralogy	1.50	5.00

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Bookstore 18.

Brought forward.....

4 Pirsson Rocks & Rock Mineral	2.50	10.00
1 Moses & Parsons Mineralogy	3.50	3.50
1 Reis Economic Geology	4.00	4.00
5 Bosworth Geology of Mid Continent	3.50	17.50
1 Panyity Oil & Gas		5.50
2 Youngs Elements of Mining	5.00	10.00
1 Fultons Fire Assaying		2.00
21 Pirssons & Schuchert Geology Vo. 1	3.25	68.25
25 " " " 2	3.50	87.50

Chemistry:

134 Kendrick & de Lury Lab. course in Chemistry	1.10	121.40
1 Goult Chemical Analysis	2.75	2.75
4 Garrett & Harden Organic Chemistry	1.40	5.60
3 Hatschek Chemistry of Colloids	1.40	4.20
2 Taylors " "	2.50	5.00
3 Roth Physical Chemistry	1.50	4.50
2 Holliman Organic Chemistry	3.75	7.50
30 Remsons Organic Chemistry	2.25	67.50
136 Noyes Qualitative Analysis	1.25	232.50
2 Rogers Industrial Chemistry	7.75	15.50
1 Scotts Chemical Analysis		6.00
3 Oseroff Organic Chemistry	1.50	4.50
3 Mellor Modern Inorganic Chemistry	2.75	7.25
1 Photo Chemistry	3.75	3.75
2 Laffeldt Electro Chemistry	1.40	2.80
5 Jones Physical Chemistry	2.10	10.50
55 Smiths General Chemistry	3.25	189.75

Agriculture:

10 Thorne Farm Manure	1.60	16.00
12 Piper Forage Plants	2.75	33.00

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Bookstore 19.

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8 Hopkins Soil Fertility	3.50	28.00
12 Lippincotts Poultry Production	3.00	36.00
1 Lyons Fippon & Buckman Soils		1.90
1 Hilgard Soils	4.00	4.00
2 Kalner Feeding of Animals	2.00	4.00
15 Montgomery Farm Crops	1.75	26.25
8 Lyons & Montgomery Grading Grains	.80	6.40
11 Hunts Cereals	1.75	19.25
23 Pipers Grain Trade	.65	14.95
5 Babcock & Clausen Genetics	4.50	22.50
11 Lyons Soils	1.90	20.90
12 Kings Soils	2.00	24.00
3 Carltons Small Grains	2.25	6.75
9 Plant Breeding in Scandinavia	1.25	11.25
15 Todder & Pasture Plants	.60	9.00
3 Farmers of 40 Centuries	2.50	7.50
13 Wheelers Manures	2.00	26.00
3 Feeding the Family	2.30	4.60
14 Feeds & Feeding	3.00	42.00
10 Rothamsted Experiments	4.00	40.00
2 Diseases of Farm Animals	2.50	5.00
29 Bulletin #218	.15	4.35
30 " #222	.71	2.25
30 " 622	.15	4.50
30 " 129	.10	3.00
29 " 797	.71	2.17
29 " 836	.71	2.18
30 " 820	.10	2.20
30 " 235	.71	3.00
22 " 461	.71	1.65
29 " 692		2.18
30 " 772	.50	15.00
30 Agronomy Vol. 2 #4	.40	12.00

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30	Bulletins #201	.20	6.00
30	" 269	.10	3.00
30	" 139	.7½	2.35
30	" 182	.10	3.00
30	" 835	.7½	2.35
30	" 757	.7½	2.35
30	" 307	.7½	2.35
30	" 210	.7½	2.35
30	" 595	.7½	2.35
30	" 618	.15	4.70
30	" 522	.15	4.70
30	" 557	.7½	2.35
30	" 176	.25	7.50
30	" 195	.20	6.00
30	" 239	.10	3.00
61	Duncans Prair ie Provinces	.45	27.45
16	MacCaigs Agriculture	.75	12.00
15	Elementary Botany	.70	10.50
7	Canadian Civics	.45	3.15
3	How Canada is Governed	1.10	3.30
5	Kline & Colley's Foods	1.25	7.50
3	Campbells Domestic Sc.	1.00	3.00
25	Personal Hygeine	1.50	37.50
3	The Posy Ring	.65	1.75
28	Food & Dietetics	3.25	91.00
12	Woolmans Sewing Course	1.50	18.00
11	Freemsn's Psychology	1.40	15.40
14	Farm Blacksmithing	.50	14.00
2½	sets Grapic Draw Bks. per set	1.50	3.75
2	Baileys Art Education	.50	1.20
1	# Nature Drawing		1.50
3	Draws Art	1.50	4.50
7	Beams Book Binding	1.25	8.75
2	Papers Card Board instruction	1.50	3.00

Carried forward.....



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Bookstore 21.

Brought forward.....

4 How to teach Arithmetic	1.25	5.00
16 Griffiths Covet. Courses	1.50	24.00
25 Hand work in Wood	2.00	50.00
14 Chapmans Hand Bk. of Birds	3.50	49.00
44 Birds & Flower Guides	1.00	44.00

Y. M. C. A Books

17 The Will of God	.60	10.20
11 Social Aspects of Foreign Missions	.70	7.70
3 The Challenge of the Present Crisis	.50	1.50
3 The Book of Genesis	.50	1.50
3 Thirty Studies of Jesus	.50	2.50
61 Students Standards of Action	.75	45.75
73 Christianizing Community Life	.75	54.75
35 The Meaning of Faith	1.00	35.00
12 Jesus in the Records	.75	9.00
6 Harmony of the Gospels	1.00	6.00
2 The Manhood of the Master	1.15	2.30
23 Life at its Best	1.15	26.45

Summer School:

2 Terman's School Child	1.85	3.70
1 Smith Sociology		1.85
10 Greer's Cooking	1.50	15.00
5 MacGowans Textiles	1.35	6.75
14 Syllabus of Physical Education	.50	7.00
6 Griffiths Essentials of Woodworking	1.25	7.50

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Bookstore 22.

Brought forward.....

22 Slide Boxes	1.40	30.80
23 " <sup>5</sup> / <sub>8</sub>	.30	6.90
19 Stethoscopes	2.50	47.50
3 " "	2.75	8.25
3 " "	5.00	15.00
27 Soecko Mounts	.55	14.85
68 " "	.35	28.30
6 Waterproof Gowns	7.90	47.40
18 " "	9.75	175.50
582 Bottles Carters Ink	.15	87.30
3 doz. Mucilage	.10	3.60
3 " Staffords Paste	.10	3.60
10 Qts Watermans Ink	1.60	16.00
12 Pts. " "	1.00	12.00
9 Bot. Ink	.80	7.20
24 Tea Squares	.90	21.60
2 <sup>1</sup> / <sub>2</sub> Gross Pencils	.05	25.20
1 <sup>1</sup> / <sub>2</sub> " " Mandarin	.05	10.80
4 " "	.10	57.60
30 Doz. Venus Pencils	.10	36.00
2250 Mimeograph Paper	55.00	18.75
33 Pks. co-ordinate paper	.40	13.20
58 " Physics "	.35	20.30
Logarithan "		9.50
30 Pk. Onion Skin	1.60	48.00
48 Foolscap Unruled	2.20	105.60
17 " " Light Weight	1.80	30.60
5 5 " x 3" Indeses	.60	3.00

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Bookstore 23.

Brought forward.....

10 6" x 4" Cards	.40	4.00
4 Expanding wallets	.30	1.20
6 File Pockets	.25	1.50
200 large hand made envelopes	.05	10.00
3 M. Typewriter paper	2.25	6.75
18 R. " "	2.50	45.00
16 boxes " "	3.00	48.00
200 sheets Thesis paper	.45	.90
726 sheets Plant Mounting	.10	24.20
6 R. Letterheads	3.25	19.50
1800 sheets carbon	1.25	22.50
600 #10 envelopes	.80	4.80
175 cloth lined envelopes	.25	8.75
6 Desk Blotters	3.00	18.00
10 straight edges.	2.50	25.00
3 " "	2.75	
660 Writing pads	.50	33.00
1 Portfolio		1.40
17 Coat sweaters	15.00	255.00
3 B. D. Hoods	5.00	15.00
15 B. A. "	5.00	75.00
15 Ll. B. Hoods	5.00	75.00
2 D. D. S. Hoods	5.00	10.00
2 B. S. C. "	5.00	10.00
5 M. A. "	6.00	30.00
1 MSc. "	6.00	6.00
4 B. Sc. "	5.00	20.00
4 1/2 doz. Binding cases	.45	29.30
54 Blackboard eraser	.25	16.00
87 Adding machine rolls	.25	21.75
16 Tennis shoes 7-\$1. 5-\$1.10; 4-1.40; 3-95¢		19.55

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Carried forward.....





Bookstore 24.

Brought forward.....

1 Tennis shoes	<del>HYON</del>	1.25
21 Pullover sweaters	8.00	168.00
122 Imp. notebooks	.45	53.90
89 Varsity covers #2854	.80	71.20
93 Fillers #854	.25	23.25
2200 sheets standard paper	.15	13.70
17 Excelsior books #1844	.70	11.90
39 Field books	1.25	48.25
46 pkts. news bands	.15	6.90
105 Linen tablets	.45	47.25
19 sets drawing instruments	15.00	285.00
5 Triangles	.20	1.00
8 "	1.00	8.00
14 "	.95	13.30
9 Jockey straps	1.35	12.15
106 Higgins Drawing Ink Bk.	.35	37.10
26 " " " Blue	.50	13.00
21 " " " Brown	.50	10.50
9 Slide rules	8.00	72.00
36 Scale guards	.15	5.40
9 Reading glasses	.50	4.50
34 Doublet lenses	2.10	71.40
2 slide rule glasses	.60	1.20
20 slide rule glasses	.50	10.00
12 slide rule <del>glasses</del> covers	1.20	14.40
9 Protractors	.50	4.50
15 " steel	.60	9.00
37 Blacks Thumb tacks	.15	5.55
10 boxes Reeves paints	.35	3.50
10 letter clips	.25	2.50

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Bookstore 25.

Brought forward.....

1 Index book	3.50	3.50
36 Waverley clips	.12 $\frac{1}{2}$	4.50
38 " "	.10	3.80
11 " "	.05	.55
2 Leather loose leaf books	5.75	11.50
1 " "	4.50	4.50
1 " "	4.00	4.00
2 " "	2.60	5.20
5 R <sup>et</sup> fillers	.60	3.00
1 Leather Memo book		3.75
1 " Diary		2.00
16 rulers	.05	.80
16 Pennants	1.75	28.00
12 " "	1.25	15.00
2 " "	1.00	2.00
8 " "	.75	6.00
12 bottles Stafford Ink	.10	1.20
15 $\frac{1}{2}$ doz #4 Watermans Ink	.30	55.80
49 $\frac{1}{2}$ doz. #2 " "	.20	118.80
33 Fillers ##405	.35	11.55
24 Fillers #420	.20	4.80
109 Doz. "#844	.15	16.35
25 doz. "#402	.25	69.00
58 " " 400	.20	11.60
187 Note books #1402	.50	93.50
42 " " 1400	.40	16.80
7 Lever Dull Pencils	1.50	10.50
6 Pen openers	.15	.90
6 Tweezers	.25	1.50
10 Costic Pencils	.10	1.00
4 Pen cleaners	.15	.60

Carried forward.....







Bookstore 26.

Brought forward.....

26 Court Plaster	.10	2.60
12 Lab cloths	.20	2.40
1 Fountain Pen		6.00
4 Fountain Pens Moore	5.00	20.00
6 Fountain Pens "	3.25	19.50
4 " " Swan	3.00	12.00
31 Watermans "	2.50	77.50
59 Post Cards	.05	1.95
16 National covers	.55	8.80
6 National books	.70	4.20
6 " " #1402	.50	3.00
10 Letter baskets	.40	4.00
12 boxes white chalk	.80	9.60
7 bottles Watermans Ink (Nichol)	.50	3.50
26 Hand balls	.50	13.00
17 Balls twine	.45	7.65
11 " "	.50	5.50
12 " "	.25	2.25
22 Bottles Ink	.15	3.30
16 " "	.30	4.80
8 " Red	.10	.80
1 " White	.20	.20
702 Pencils (colored)	.10	70.20
120 Erasers	.05	6.00
36 " "	.10	3.60
12 Dough rubbers	.15	1.80
34 " "	.10	3.70
6 doz. rubber heads	.02	1.80
16 doz. rubber shields	.10	1.60
16 Pencils Indelible	.10	1.60

Carried forward.....



Bookstore 27.

Brought forward.....

10 doz. pencils order book doz.	1.20	12.00
25 1/2 " Venus	.10	27.90
118 " Anglo Saxon	.10	11.80
53 " ink & Pencil erasers	.15	7.95
3 doz. erasers " "	.10	3.60
10 erasers typewriter	.15	1.50
25 erasers	.05	1.25
41 " Ideal	.05	2.05
85 "	.10	8.50
195 pencils	.05	9.75
12 gross pen nibs	1.00	12.00
21 boxes Esterbrooks pens	.15	3.15
8 Sen. Ink stands	1.25	10.00
2 do	.60	1.20
7 pen racks	.30	2.10
11 wrist bands	.30	3.30
11 eye shades	.15	1.65
102 Art corners (pkts)	.20	20.40
14 rolls Paserpartout	.15	2.10
16 boxes hotchkiss staples	.50	8.00
4 boxes challenge eyelets	.40	1.60
22 time books	.05	1.10
10 sticks sealing wax	.05	.50
7 " "	.10	.70
3 " "	.15	.45
2 boxes seals	.10	.20
8 Line daters	.25	2.60
5 bottles stamp pad ink	.35	1.75
1 U. of A. Crest		1.25
19 do	.40	7.60

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Carried forward.....





Bookstore 28.

Brought forward.....

29 Tubes Dennisons Glue	.20	5.80
4 sponge cups	.50	2.00
3 boxes ticket holders	1.80	5.40
3 doz. letter and paper clips	.15	5.40
2 Referee whistles	.25	.50
5 boxes spring hoods	.15	.75
4 boxes modern clips	.15	.60
6 boxes paper fasteners	.50	3.00
3 boxes paper fasteners	.60	1.80
49 boxes gum labels	.20	9.80
72 Camel hair brushes	.15	10.80
14 do	.10	1.40
30 brushes Japanese	.20	6.00
7 tubes Chinese White	.20	1.40
12 tubes Kroma "	.20	2.40
82 pens spoon bill	.10	8.40
13 Adhesive tape	.10	1.30
900 mettle pin tags. per hundred	.50	4.50
40 Pyramid pins	.15	6.00
30 Cartees glue pencils	.15	3.00
3 pairs scissors	1.50	4.50
16 " "	1.35	21.60
11 pencils Eldorado	.10	1.10
34 Modern Clips	.15	5.10
5 Sterling clips	.15	.75
30 show card colours	.35	10.50
22 boxes Grey Hound Pastells	.25	5.50
29 Tubes Stixit	.20	5.80

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Bookstore 29.

Brought forward.....

26 Pen fillers	.05	1.30
31 boxes #11 Rubber bands	.25	7.75
1 box assorted rubber bands		1.25
14 boxes do	1.00	14.00
3 Mimeograph cloths	.20	.60
5 boxes stencils	6.50	32.50
1 " Roneo inl	2.75	2.75
1 bottle Varnish		.40
12 tubes Seccotine	.15	1.80
192 sheets squared paper each	.10	19.20
436 " Drafting paper	.10	43.60
306 " Universal Drawing	.20	61.20
20 bottles Mucilage	.10	2.00
5 bottles White Paste	.10	.50
5 sets Phillips rubber soles	1.50	7.50
34 yards tracing paper	.15	5.10
20 pkts crepe paper	.30	6.00
50 yards detail paper 36" yd	.40	20.00
52 yards Detail paper 30"	.30	15.60
50 Egyptian Drawing paper	.15	7.50
41 Tracing linen	1.10	45.10
18 " "	1.00	18.00
7 Scrap Books	2.65	18.55
5 sets cap index	1.75	8.75
1 set cap index	2.10	2.10
20 yards tracing linen	1.00	20.00
8 yards Profile linen	1.30	10.40

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Carried forward.....



Bookstore 30.

Brought forward.....

11 yards Profile Paper	.35	3.85
230 sheets Duplex paper	.20	4.60
440 Whatman Paper	.20	88.00
428 do	.20	85.00
10 Vulcanite	1.90	19.00
175 sheets cork	.15	26.25
360 " cover paper	.05	18.00
91 note books	.05	18.00
120 Fillers #840	.20	6.00
53 " #840	.20	2.65
6½ doz. books note #445	.45	35.10
4½ doz. do 479	.15	8.10
2½ doz. do 365	.60	18.00
5½ doz. do 311	.10	6.60
28½ doz. do 36 & 116	.10	34.20
13 doz. do 441	.50	78.00
17 doz. University	.10	\$20.40
34 doz. do	.05	20.20
14 doz. do	.05	8.40
21 doz. do	.15	37.80
7 Fillers #2935	.15	12.60
2½ note books #2935	.50	15.00
2-1/6 doz. Memo Books	.20	5.20
13 Memo books		5.75
3 only do	.30	.90
11 " do	.10	1.10
15 Rival Carbon	3.00	45.00
6 Account pads	.50	3.00
6 pkts Ledger sheets	1.75	10.50

Carried forward.....





Bookstore 31.

Broughr forward.....

7-1/3 doz. #344 Note books	.25	21.75
11 1/2 " 630 do	.35	48.30
8 " 130 do	.30	33.60
4 1/2 " 491	.50	10.80
2 1/2 " 493	.55	15.95
5 " 361	.55	33.00
16 boxes Manilla Envelopes	1.00	16.00
700 sheets Tea paper per hundred	.80	5.60
17 sets Biological Instruments	3.75	63.75
19 Gross Microscopic slides	3.00	57.00
101 boxes " cover glasses	1.00	101.00
7 Scalpels	.75	5.25
14 Medical Scissors	1.25	17.50
2 Moore Pens	2.50	5.00
2 Waterman Pens	2.50	5.00
2 Leather note books	6.75	13.50
4500 Physics paper	.01	45.00
220 pkts French or gandie envelopes	.20	44.00
96 Empress Special envelopes	.25	24.00
226 pkts Club Special Envelopes	.30	67.80
48 boxes " Note paper	2.00	96.00
39 Boxes Empress	1.60	62.40
16 Plain envelopes	.15	2.40
17 Plain pads	.40	6.80
8 Small Pads	.20	1.60

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Bookstore 32.

Brought forward.....

1 wax spatulas 1 #5	XYNOX	.65
3 do #7	.90	2.70
5 do #11	1.35	6.75
12 Rivetting Hammers	1.10	13.20
16 Boxes Corborandum points	.25	4.00
4 1/2 round files	.90	3.60
14 flat files	.85	11.90
12 Rat Tails Files	.60	7.20
9 1/2 round files	.85	7.65
7 jars soldering flux paste	.45	3.15
15 sheets Aluminum	.20	3.00
20 Dental Instruments	1.50	30.00
20 Chip blowers	.90	18.00
20 hones (sharpening)	1.10	22.00
5 Denham flasks	2.40	12.00
6 boxes gold rouge	.20	1.20
9 boxes Tripelt	.20	1.80
12 boxes Cuttle fish disks	.25	3.00
36 boxes Garnet "	.25	12.00
24 " sand "	.25	6.00
24 " Wood points	1.25	25.00
8 " Sticky wax	.75	6.00
15 Lathe brushes	.85	12.75
1 rubber bowl		1.30
8 copper ladles	.75	6.00
9 boxes ash dental rubber	4.20	37.80
20 " Dark elastic "	2.80	56.00
5 " Yellow "	.85	4.25
13 Charchao blocks	.45	5.85
20 Mixing slabs	1.95	39.00
2 Gilberta Varnish	.55	1.10
13 Kerrs Compound	1.20	15.60

Carried forward.....





Bookstore 57.

Brought forward.....

6 sets teeth	1.10	6.60
18 Gossloce's Lab Pliers	3.40	61.20
18 Peeso's " "	3.40	61.20
10 sheets silver plate	.55	5.50
11 soft wheel brushes	.65	7.15
16 Lingual Bars	1.70	27.20
6 Plugger Points	1.00	6.00
5 " "	1.00	5.00
20 Plug Finishing burrs	.55	11.00
20 " " "	.55	11.00
20 " " "	.55	11.00
20 " " "	.55	11.00
15 Plastic Instruments	.70	10.50
48 Enamelled burrs	.95	45.60
60 Excavating "	.70	7.00
48 " "	.75	6.00
48 " "	.70	5.60
48 " "	.70	5.60
48 2 " "	.75	6.00
48 " "	.70	5.60
48 Enamelled "	.95.	7.20
6 doz. Excavating burrs	.70	2.10
6 " " "	.70	2.10
6 " " "	.70	2.10
6 " " "	.70	2.10
6 " " "	.70	2.10
6 " " "	.70	2.10
6 Enamelled burrs	.95	2.85
6 " "	.95	2.85
14 Thermometers	3.80	53.20
11 Silver Solder Pieses	.15	1.65
19 Mechanical Saws	1.60	30.40
20 Pearson's #2 Chisel	.60	12.00
10 Horn Mallets	1.25	12.50

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Bookstore 34.

Brought forward.....

6 Plaster Spatulas	1.25	7.50
24 boxes Finishing strips	.60	14.40
7 felt wheels	.50	3.50
4 " combs	.70	2.80
12 College pliers	.90	10.80
16 Soldering Tweezers	.25	4.00
15 Plate sheers	3.00	45.00
5 Vulcanite Finishers	.70	3.50
8 Chamois Wheels	.65	5.20
1 Metal Ingot		1.05
14 B. B. Sheers	1.85	25.90
12 Pin bices	1.25	15.00
12 Chisels #48	1.25	15.00
17 Kingsleys Scrapers	.65	11.05
16 Aluminum Ingots	1.75	28.00
7 Boxes Cocoa Butter	.35	2.45
5 Porte Polishers	2.45	4.90
17 Bernard Pliers	3.30	56.10
15 C.S.Pluggers	1.00	15.00
13 #2 Impression Trays	1.20	15.60
14 #4 " "	1.35	12.90
9 #15 " "	1.25	11.25
14 #21 1/4 " "	1.55	18.90
7 #26	1.35	9.45
5 Plastic filling Instruments	1.90	9.50
60 Mandrees	.20	12.00
7 Dental Instruments	1.70	11.90
20 flat Point Probes	1.75	35.00
16 S.S. White Lancets	1.50	24.00
3 Gysi. Articulators	7.25	21.75
8 Cans Calcer	1.60	12.80
18 Crown & Bridge Work	5.25	94.50

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Carried forward.....

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[illegible]

Bookstore 35.

Brought forward.....

10 Vaughan's Types & Breeds	3.00	50.00
2 Carver Rural Economics	2.10	4.20
Gage & Co. invoice		434.78
124 Drawing books	.60	74.40
7 Ross Writing of News	1.50	10.50
3 Clips 2.40; 3 pen Books 3.25		4.65
36 Penholders	.10	3.60
47 O'Donoghue's Zoology	4.00	188.00
4 Mosier & Gustafson's Soil Physics	2.50	10.00
3 L. L. Fillers #555	1.00	8.00
3 " " 553	.75	4.50
3 " Books	4.50	27.00
6 " "	5.00	30.00
16 " "	1.40	22.40
4 Garret & Harden's Chemistry	1.30	5.20
3 Callerton's small grains	3.60	28.80
26 Collection of short stories	.55	14.30
18 King's Statistical Methods	2.25	40.50
3 Neilson's Facts about Shakespeare	2.00	6.00
2 Aristotles Politics	1.25	2.50

Carried forward.....







Bookstore 36.

Brought forward, .....

2 Hollman's Org, Ehem	3.50	7.00
8 Dissecting Scissors	1.25	10.00
17 Prothero's Contouring Fliers	7.25	123.25
18 Whitson & Walsters Soil Fertility	1.75	31.50
6 Steven's Arithmetic of Pharmacy	1.60	9.60

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13.1	11.1	13.1
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Bookstore 37.

Brought forward..... ..

12 Aprons Danziger		13.60
Dental Instruments, Mason	577.00	577.20
Exp <sup>3</sup>	6.50	6.50
do Temple P.	65.96	65.96
Luckett L. L. Books	100.96	100.96
Letter Baskets Revillon	22.22	22.22
Books Houghton Mifflin	42.64	42.64
" Renouf	18.20	18.20
Swan Pens	84.74	84.74
79 Dann's Junior Songs	1.10	86.90
91 The Huleyon Song Book	1.25	113.75
35 Songs of Child World Bk.1	1.25	43.75
52 Songs of Child World Bk.2	1.25	65.00
32 Lilts & Lyrics (Riley Goyner)	1.25	40.00
75 Giddings & Newtons Jr. Song Bk.	.90	67.50
93 Baldwin & Newton's Standard Song Classics	1.00	93.00
18 Newton's Primary Melodies	.55	9.90
22 Sight Reading Studies Primary	.20	4.40
51 Sight Reading Studies, Grammar	.20	6.20
56 First Studies in Two Pt. Songs	.20	11.20
47 Common School Book of Vocal Mus.	.55	25.85
36 New Normal Course Book 11	.55	19.80
10 " " " " 111	.60	6.00
51 Sharp Williams Selection of Folk Songs	1.10	56.10
60 Ditspm Com. Chor. Collections	.25	15.00
28 Murdocks Easy Song Book	.25	7.00
23 Progressive Music Series Book 1.	.60	13.80
44 " " " " 11.	.65	28.60
94 Murdocks School Songs Series A.	.25	23.50
47 " " " " B.	.25	11.75
88 British National & Fk. songs 2.	.75	66.00
39 Twice 55 Community Songs	.20	7.80
71 Who Will Come with Me	.15	10.65
74 Welcomes Heroes of Renown	.15	11.10
14 Lovely Appear	.05	.70
15 Rest Thee My Little One	.10	1.50
11 Our Soldiers Welcomes Home	.15	1.65
34 The Fairies Dance	.10	3.40
34 Softly Blow ye Sweet Spring Gales	.10	3.40
10 Hail Flag of the Empire	.10	1.50

Carried forward..... ..

$\chi^2 = 0.97$ ,  $p = 0.61$

[illegible]



Bookstore 58.

Brought forward,.....

33 Woodland Voices	.10	3.30
81 Nancy Lee	.10	8.10
82 Song of the Vikings	.10	8.20
70 Spring Song	.10	7.00
9 Blackboard Liners	.55	4.95
55 Batons	.40	22.00
17 Tuning Forks	.40	6.80
9 Music Dictation Books	.10	.90
35 Packets Mounting Pins	.35	12.25
26 " " "	.40	10.40
72 Sheets Charcoal Paper	.20	14.40
108 Sticks "	20 .05	1.20
70 sheets Japanese Rice Paper	2 .05	1.05
36 Stencil Knives	.35	12.60
46 " Brushes	2 @ .25	5.75
10 Stencils	.05	.50
41 Atomisers	.25	10.25
34 Sketching Pads	1.00	34.00
10 Pkts Colored Construction Paper	.25	2.50
24 " Bogus Paper	.15	3.60
6 Bx. #16 Water Colors	1.40	8.40
4 " #18 " "	.65	2.60
5 " Stick Printing Dyes	.30	1.50
20 Pkts. Plant Labels	.15	3.00
2 Envelope Odd Pictures	.25	.25

Carried forward.....



1. *Staphylococcus aureus*

Brought forward ..... 100

QTY	DESCRIPTION	UNIT PRICE	TOTAL
10	1000	1.00	10.00
20	2000	2.00	40.00
30	3000	3.00	90.00
40	4000	4.00	160.00
50	5000	5.00	250.00
60	6000	6.00	360.00
70	7000	7.00	490.00
80	8000	8.00	640.00
90	9000	9.00	810.00
100	10000	10.00	1000.00
110	11000	11.00	1210.00
120	12000	12.00	1440.00
130	13000	13.00	1690.00
140	14000	14.00	1960.00
150	15000	15.00	2250.00
160	16000	16.00	2560.00
170	17000	17.00	2890.00
180	18000	18.00	3240.00
190	19000	19.00	3610.00
200	20000	20.00	4000.00
210	21000	21.00	4410.00
220	22000	22.00	4840.00
230	23000	23.00	5290.00
240	24000	24.00	5760.00
250	25000	25.00	6250.00
260	26000	26.00	6760.00
270	27000	27.00	7290.00
280	28000	28.00	7840.00
290	29000	29.00	8410.00
300	30000	30.00	9000.00
310	31000	31.00	9610.00
320	32000	32.00	10240.00
330	33000	33.00	10890.00
340	34000	34.00	11560.00
350	35000	35.00	12250.00
360	36000	36.00	12960.00
370	37000	37.00	13690.00
380	38000	38.00	14440.00
390	39000	39.00	15210.00
400	40000	40.00	16000.00
410	41000	41.00	16810.00
420	42000	42.00	17640.00
430	43000	43.00	18490.00
440	44000	44.00	19360.00
450	45000	45.00	20250.00
460	46000	46.00	21160.00
470	47000	47.00	22090.00
480	48000	48.00	23040.00
490	49000	49.00	24010.00
500	50000	50.00	25000.00

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Bookstore 39.

Brought forward.....

Books at Cost & Special Prices.

333 Summary Statement .of Essentials

of Latin Form		36.63
5 Books bought back from S.C.R.		7.35
2 Rugby Suits	5.00	10.00
2 Blow Pipes sets	12.00	25.20
24 Gowns	6.55	157.20
3 sets Ruling pins	2.75	7.25
36 Quarter sleeves Sweaters	1.60	57.60
12 Long " "	1.80	21.60
49 Sweaters	1.25	61.25
2 White Gym Vests	.60	1.20
24 Prs. Foot ball hose	.60	14.40
11 sets Biological Instruments	2.25	24.75
400 Essay Pads	.20	84.00

I HEREBY CERTIFY THAT THE ABOVE IS A TRUE STATEMENT OF  
THE STOCK ON HAND IN THE BOOKSTORE; AS AT THE TIME  
DECEMBER, 31, 1920.

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Manager of Bookstore.

FOR TOTALS SEE NEXT PAGE.

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888 Summary Statement of Receipts and Disbursements

Year	Value	Year	Value
1900	100	1910	100
1901	100	1911	100
1902	100	1912	100
1903	100	1913	100
1904	100	1914	100
1905	100	1915	100
1906	100	1916	100
1907	100	1917	100
1908	100	1918	100
1909	100	1919	100
1910	100	1920	100
1911	100	1921	100
1912	100	1922	100
1913	100	1923	100
1914	100	1924	100
1915	100	1925	100
1916	100	1926	100
1917	100	1927	100
1918	100	1928	100
1919	100	1929	100
1920	100	1930	100
1921	100	1931	100
1922	100	1932	100
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1959	100	1969	100
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1963	100	1973	100
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1986	100	1996	100
1987	100	1997	100
1988	100	1998	100
1989	100	1999	100

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044

Bookstore 40.

Totals of Foregoing Pages.

Page 1	308.65
2	513.75
3	141.45
4	192.90
5	388.70
6	474.45
7	441.25
8	1040.40
9q	976.45
10	595.25
11	595.25
12	721.30
13	627.70
14	1097.00
15	828.75
16	679.25
17	1824.40
18	946.25
19	414.73
20	321.60
21	416.45
22	904.35
23	865.35
24	1029.60
25	512.00
26	300.85
27	167.95
28	135.10
29	373.45
30	637.55
<del>31</del>	<del>803.00</del>
31	803.00
32	386.45
33	451.00
34	566.70
35	949.33
36	181.35
37	1788.72
38	185.50
39	508.43

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Grand Total..... 24212.61.....

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INVENTORY.DECEMBER 31, 1920.PRINTING DEPARTMENT.

8 reams U. of A. Bond White	8.28	66.24
1/5 R Krypton Parchment	12.00	2.40
5 1/2 Walrus Bond	5.44	29.90
1 R. do	6.80	6.80
2 1/2 Victory Bond	7.20	16.20
3 R. F. W. Bond	5.44	16.32
8 R. Caribou Fine	7.50	60.00
3 R. Walrus Bond	6.00	18.00
1 R. do	5.68	5.68
6 1/2 R. do	5.68	36.92
6 R. Madsy Egg. Writ. Man.	4.20	25.20
700 Exam Env.	18.00	18.00
5000 White Wave Eng.	12.15	60.75
3500 S. Oct. Eng.	3.30	11.55
1200 Ng. Oct. Eng.	4.50	5.40
800 Queens Own Env. White	4.15	3.55
5000 U. of A. Crest Env. #8	7.30	36.50
6500 Env. Bond Env.	4.40	28.60
2000 Japan Bon Env.	4.40	8.80
2000 Cain Env	2.65	5.30
11,500 Railway Man, Env.	7.40	85.10
6000 Belfast Bond Env.	5.55	33.00
4700 #9 O.E.Env. Cartridge	6.75	32.07
2500 #10 O. E. Env. Cartridge	7.65	19.12
500 Mech. Clasp Eng.	19.75	9.87
4000 White Wave	9.50	38.00



Printing Department 2.

Brought forward.....

500 #859 Env.	15.41	7.71
2400 Man. Env	18.00	45.00
500 Band S. Env.	16.60	8.50
22 sheets Standard Bristol	4.45	.99
150 sheets do	4.45	6.75
48 sheets Ry. Bd.	12.50	6.00
30 sheets do	12.50	6.25
50 sheets do	12.50	6.25
41 sheets do	12.50	5.12
45 Henly Bristol	11.84	5.62
49 sheets Rly. Bd.	12.50	6.12
10 sheets Mill Bd.	7.60	3.45
60 sheets Rly Bd.	16.05	9.90
60 sheets Rly Bd.	12.50	7.50
180 sheets Flaxtt Bd.	7.98	14.30
2000 sheets Sq. cut Cards	2.30	4.60
300 sheets Vic. do	2.80	.84
5000 sheets sq. cut #65	2.85	14.25
3000 do	3.40	10.20
2300 sq. cut	3.40	7.82
1000 Marlborough R. C.	2.45	2.45
1000 Excellent R.C.	3.45	3.45
1000 Marlborough R. C.	3.75	3.75
1000 "	3.45	3.45
1000 Chamf. Env.	18.50	18.50
500 do	23.00	16.50
1000	18.50	18.50

..... *Journal of Applied*



Printing Department 3.

Broughr forward.....

1000 Chaml. Env.	15.00	15.00
800 Society	17.50	14.00
200 Inv. Cards	1.75	3.50
200 Inv. Cards	1.85	3.70
400 Inv. Cards	22.00	8.80
250 Inv.	22.00	5.50
300 Printed Border Dance Programs	2.50	7.50
250 MenusEmb.	5.00	2.50
100 Menus Emb.	7.50	7.50
8 Bdl. Ant. Laid	15.00	240.00
10 rms. coated book	22.80	228.00
52 R. Ant Wove	3.75	195.00
5000 sheets Dane White	7.95	79.50
2500 News	3.50	8.75
1400 Alladin Cover	13.50	188.00
3/4 Rm. Buckeye Cov.	25.30	18.96
1 Rm. Cov. Cov. Ripple	21.60	21.60
100 sheets Buckeye Cover Gre.	23.00	2.30
1000 sheets Fairfield Deckle Edge	15.86	31.72
200 sheets Fairfield Deckle Edge Buff	15.86	3.18
100 sheets Black Buckeye Cov.	23.00	2.30
200 #7 Linen tags	10.00	4.00
1000 #5 Linen tage Metal Eyelets	17.96	17.96

Carried forward.....





Printing Department, 4.

Brought forward..... ..		
250 sheets Rapene Tag. Man.	49.00	29.50
50 sheets do	30.63	1.53
100 sheets Monarch Coated Blotting	12.00	12.00
500 sheets Onion Skin	5.40	5.40
1200 U. of A. Letterheads Embossed	7.00	84.00
800 Gum Paper	15.25	24.09
90 yards Binders Cloth	.68	61.20
300 sheets Blanford Wedding Bristol	16.80	12.20
Christmas Cards, etc.	150.00	150.00
79 sheets Pdg. Bd.	5.25	3.95
20 sheets " "	5.25	1.20
19 sheets Press Bd.	6.75	1.07
100 sheets Rly. Bd.	12.50	12.50
82 sheets Rly Bd.	12.50	10.24
200 sheets Planet Bristol	7.68	15.36
11 sheets Rly. Bd.	16.05	1.78
800 Planet Bristol	7.68	69.12
128 do	6.40	8.20
30 sheets Stand. Bristol Green	4.45	1.35

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Carried forward.....



Printing Department 5.

Brought forward.....

750 Dance Programmes Assorted	2.50	18.75
300 White Tasseled Prog. Pencils	3.74	11.25
3075 Assorted colors Prog. Pencils	3.75	112.50
300 sheets binders paper	4.00	4.00
300 Carbon Invoice forms		5.00
5 lbs Letterpress Black Ink	.35	4.25
1 $\frac{1}{2}$ lbs Special Bond Black ink	1.50	2.25
4 lbs Toky half tone black ink	1.35	5.40
2 lbs. Quick Druing Black ink	1.50	3.00
3 $\frac{1}{2}$ lbs Green Ink	1.25	4.40
1 lb Pale Green Ink	1.25	1.25
2 lbs Bronze Blue Ink	2.20	4.40
2 $\frac{1}{2}$ lbs Union Blue Ink	1.20	3.00
$\frac{1}{2}$ lbs. Bronze Brown Ink	2.20	1.10
1 $\frac{1}{2}$ tins Gold Bronze Dust	1.30	1.95
$\frac{1}{2}$ lb Red Ink	2.20	1.20
3 pts. Reducing Liquid	..60	1.80
4 lbs Dry Flour poste	.40	1.60
1 pt. Macilage		.20
4 lbs Padding Glue	.09	.36
1 lb. Fish glue	.55	.55

2725.11

Work in progress

600.00

Plant.....\$5877.86

Depreciation.....587.86 .... 5290.00

8615.11.







I N V E N T O R Y.

DECEMBER 31, 1921.

WORKS DEPARTMENT.

HARDWARE STORE.

4 Toilet Sponge Holders	3.00
6 pairs 12" strap hinges	6.00
1 doz. Iron casement stays	3.00
5 only cock-spurs	2.50
8 prs antique iron hinges	6.00
2 doz. antique iron handles	12.00
3 doz. toilet paper holders	9.00
6 old union locks	12.00
12 iron kick plates	24.00
1 doz. storm sash hangers	2.40
1 doz. door stops	2.00
11 only double action catches	2.75
6 doz. prs. large flush lifts	36.00
107 brass pull-down sockets	16.00
13 pairs small flush lifts	5.20
2 doz. Map hooks	6.00
63 bar sash lifts.	18.90
6 doz. iron buttons	3.00
1 doz. 5" Barrell bolts	2.40
2 doz. sash rollers	4.00
1 gross elbow catches	3.00
20 lb. Mounding Nails	5.00
1 box. Green Cord	1.00
2 doz. prs. surface hinges	7.20
2 door check springs	4.00
20 sash Fasteners	4.00
1 doz. N. P. Catches	6.00
3 Packets Screw Hooks	2.70
2 gross gate hooks & Eye	3.00
1 gross Boxwood Acorns	4.00
100 odd machine & Carriage Bolts	4.00
17 Brass O'ash Plates	15.00
2 door pulls	2.00
160 Gross various size screws	80.00
22 pairs ornamental hinges	6.60
3 doz. Sargent Sash lifts	9.00
160 rubber door stops	16.00
5 packets stove bolts	5.00
15 Endless Fanlight cords	3.75
30 Brass Cylinder cup locks	36.00
8 N.P. Toilet seat hinges	8.00
40 sash pulleys	12.00
7 N.P. show case brackets	7.00
76 Brass Drawer Locks	76.00
2 Yale night latches	13.00

CARRIED FORWARD.....

EXHIBIT

STATE OF NEW YORK

IN SENATE

January 10, 1907

100	1. The first of the year
100	2. The second of the year
100	3. The third of the year
100	4. The fourth of the year
100	5. The fifth of the year
100	6. The sixth of the year
100	7. The seventh of the year
100	8. The eighth of the year
100	9. The ninth of the year
100	10. The tenth of the year
100	11. The eleventh of the year
100	12. The twelfth of the year
100	13. The thirteenth of the year
100	14. The fourteenth of the year
100	15. The fifteenth of the year
100	16. The sixteenth of the year
100	17. The seventeenth of the year
100	18. The eighteenth of the year
100	19. The nineteenth of the year
100	20. The twentieth of the year
100	21. The twenty-first of the year
100	22. The twenty-second of the year
100	23. The twenty-third of the year
100	24. The twenty-fourth of the year
100	25. The twenty-fifth of the year
100	26. The twenty-sixth of the year
100	27. The twenty-seventh of the year
100	28. The twenty-eighth of the year
100	29. The twenty-ninth of the year
100	30. The thirtieth of the year
100	31. The thirty-first of the year

WORKS DEPARTMENT NO. 2.

Brought forward.....

4 Wardrobe locks	2:00
103 Drawer Pulls	10:30
43 Cupboard turns	12:90
8 doz. Escutcheons	4:00
2 Corbin locks	3:00
2 safety hasps	1:20
1 Yale Padlock	2:75
6 Miller	3:00
16 Fanlight openers	48:00
8 Pairs Adjustable Openers	8:00
118 H & C Hooks.	23:60
9 Cartland Openers	15:50
2 Till Locks	1:50
22 Lag Screws	4:40
18 prs. strap Hinges	4:50
80 bed castors	4:00
1 gross shade brackets	6:00
5 small pulleys	1:50
1.6" Block pulley	3:00
10 N.P. Toilet Door indicators	45:00
13 Prs. N.P. Bonnet Hinges	58:50
3 New Double action floor spring	36:00
9 " " " " "	45:00
6 Axe Handles	3:00
15 Pick heads	7:50
1 Post Hole Auger	3:00
16 Rope Clips	8:00
2 Rolls fly screen wire	18:00
1 piece green baize	4:00
1 " Sadlers Felt	6:00
146 Chair Legs	146:00
Class paper	15:00
2 Circular Lead Lights	20:00
3 Plate glass shelves	6:00

Carried forward.....

..... 1990-1991 1992-1993



WORKS DEPT. NO. 3.

Brought forward.....

20 Window Shades	30.00
8 lengths of curtain track	12.00
20 doz. key blanks	40.00
53 only flat key blanks	9.45
7 Apringer, Mortice Locks	21.00
38 Pembina Lock sets.	152.00
9 New Lab. locks	90.00
15 Athabasca Mortice Locks	60.00
12 " " Cupbd. locks	36.00
50 Locker locks	62.50
8 doz. 2" brass butts	19.2.0
80 prs. 3" " "	32.00
3 doz. 2½ steel butts	5.40
18 pairs light narrow butts	2.70
3 prs. 4" bronze hinges	27.00
35 pairs 4" loose pin butts	26.25
4 pairs 5" ball bearing butts	20.00
16 " 3" solid brass	16.00
18 " 4" iron "	5.40
13 " 3" steel "	2.60
2 doz. 1½ butts	3.60
12 prs. 3" brass butts	4.80
120 doz. stone cutters	15.00
4 thumb latches	2.00
18 Assiniboia Mortice Lock sets	72.00
20 " Closet sets	50.00
6 Mortice dead locks	12.00
6 arts mortice locks	54.00
3 doz. Cupb. locks	9.00
9 kegs common nails	67.00
5½ kegs finishing nails	46.75
3 " Shingle nails	24.00

Carried forward.....



.....

WORKS DEPT. NO 4.

Brought forward.....

Paint Store.

20 lb. Raw Umber)	4.00
16 lb. Spruce Ochre)	2.40
18 lb. Burnt Umber) Dry	4.50
22 lb. Venerian Red) Colors	5.50
5 lb. Imperial Green)	1.50
250 lb. White Lead	50.00
2 1/2 Galls. Asphaltum	9.00
1 1/2 " Japan Dryers	5.00
2 1/2 " Wall size	10.00
1 1/2 ru" Rub Varnish	6.00
1 1/2 " White Enamel	10.50
6 lb. floor wax	3.60
2 Gall. Outside Varnish	12.00
2 lb. Aluminum Powder	7.00
4 cans " Liquid.	3.00
18 lb. Burnt Umber )	7.20
3 lb. Chrome Yellow . ) Colors in	1.50
6 lb. Burnt Sienna )	2.70
6 lb. Raw W ) oil	2.70
8 lb. Drop Black. )	3.20
10 lb. lamp " )	4.00
4 lb. Green )	1.20
2 galls mixed paint	12.00
120 lbs. Petrox	14.40
350 lbs. Putty	24.50
10 Galls. Linseed Oil	14.00
10 " Turpentine	25.00
1 1/2 galls. Wood Alchhol	5.00
3/4 " Shellac	8.00
4 1/5 lb. Calsomine	41.50
6 Used Calsomine Brushes	30.00
10 " Paint Brushes	10.00
2 Crates of glass	52.00
6 pairs of steps	15.00
2 Extension Ladders	20.00

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Carried forward.....

[illegible]

Works Department 5.

Lumber in stock Dec. 31.

Brought forward.....

1200'	5/16	3 ply panelling	194.00
3000'	3/16	" "	375.00
400'	7/16	" "	72.00
2000'		Spruce Shelving	130.00
500'		Clear Pine	70.00
2000'		Clear Fir	250.00
300'		Fir Flooring	30.00
300'		Maple & Oak Flooring	60.00
1000'	2" x 4"	Spruce	50.00
1000'	4" x 4"	Clear Fir	125.00
200'		White Wood	70.00
180'		Red Oak	72.00
Quantity of Odd Mouldings, base-board etc.			75.00
24	2'6"	2 panel 1 $\frac{3}{4}$ doors	168.00
10	2'8"x 6'8"	2 panel 1 $\frac{3}{4}$ doors	55.00
6	2'8" x 6'8"	5 panel 1-5/8	42.00
1 Crescent Woodworker			800.00
1 Circular Saw & Table			100.00
1 12 $\frac{1}{2}$ horse power motor			850.00
6 carpenters benches			60.00
12 cramps			24.00
1 cross cut saw			3.00
1 post hole digger			3.00
Glue Kettles hand screws etc.			15.00
4 16' Tressells			60.00
3 lengths belt 2 spare pulleys			20.00
12 bags plaster			16.00
20 bags cement			21.00
2 wheel barrows			12.00
Odd doors & sashes			25.00

Carried forward.....

GRAND TOTAL OF PAGES 1. 2, 3, 4, 5, .....\$12117.85

I HEREBY CERTIFY THAT THE FOREGOING IS A TRUE STATEMENT OF THE STOCK IN HAND OF THE WORKS DEPARTMENT AS AT DECEMBER 31st, 1920.

\_\_\_\_\_  
Superintendent of Works Department.







I N V E N T O R Y.

DECEMBER 31, 1920.

PLUMBERS STOCK.

Plumbers material, consisting of  
nipples, bushings, ells, tees, couplings,  
plugs, etc. etc. 983.67

Plumbers tools, consisting of cutter, dies,  
taps and dies, plunger, fire pot, torch,  
and wrenches, etc. 76.47

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1060.14

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I HEREBY CERTIFY THAT THE ABOVE IS A TRUE STATEMENT OF THE  
STOCK OF THE PLYMBER'S SHOP AS AR DECEMBER 31st, 1920.

Superintenden t of Construction.

INVENTORY

October 1, 1961

Inventory Sheet

Inventory of items, consisting of  
various, various, etc. items,  
plates, etc. etc.  
Inventory of items, consisting of  
various, various, etc. items,  
plates, etc. etc.  
Inventory of items, consisting of  
various, various, etc. items,  
plates, etc. etc.

ALONG

I hereby certify that the above is a true and correct  
copy of the inventory as of the date shown.

Inventory of items, consisting of

# I N V E N T O R Y.

DECEMBER 31, 1920.

## BLACKSMITH SHOP.

1 Electric Blower	30.00
1 Anvil	20.00
2 Vises	16.00
1, Post Drill	18.00
Blacksmith's Tools, hammers swages fullers tongure, spanners etc.	25.00
1 set dies & T ps	15.00
1 stamping set	3.00
1 bolt cutter	6.00
Shoeing Tools	12.00
360 lb. 2" x $\frac{1}{2}$ " flat iron	27.00
240 lb. 1" x $\frac{1}{2}$ " " "	18.00
360 lb. 1 $\frac{1}{2}$ " x $\frac{1}{2}$ " " "	27.00
170 lb. 1 $\frac{1}{2}$ " x $\frac{3}{8}$ " " "	12.75
60 lb. 2" x $\frac{1}{2}$ " " "	4.50
200 lb. $\frac{3}{4}$ round iron	15.00
90 lb. $\frac{5}{8}$ round iron	6.75
100 carriage bolts various	4.00
12 lb. nuts	4.80
10 lb. washers	2.50
30 pairs shoes	30.00
100 never slip calks	3.00
60 lb. nails	15.00
60 lb. nail	
CARRIED FORWARD	





Blacksmith Shop No 2.

For Use in Returned Soldiers Instructions.

Brought forward.....

16 Hand Forges.	320.00
16 Hardies	12.00
16 Norris Anvils	320.00
16 Prs. Blacksmith Tongs	12.00
16 Hand Hammers	16.00
1 Post Drill	16.00
400 lb iron-Appcox. for soldiers use	50.00
Carpenters Tools	
6 Carpenters Benches	90.00
4 Rep. Saws	20.00
13 Hand Saws	52.00
7 Tenon "	28.00
6 Jointer Planes	48.00
16 Jack Planes	96.00
12 Block "	27.00
16 Smoothing Planes	32.00
28 Chisels	21.00
11 Gouges	8.25
7 Hammers	7.00
10 Mallets	10.00
4 Braces	24.00
25 Squares 15 Bevels	60.00
3 doz. Wood Gauges	14.40
9 Mortice "	27.00
3 Yankee Drills	18.00
5 Drawer Knives	5.00
26 Bits	20.00
1 #45 Stanley Plane	16.00
5 Oil Stones & Cans	7.50
12 Screw Drivers	12.00
4 sets Compass Saws	6.00
1 30" Level	4.00
6 kegs nails	54.00 )
12 gross Screws	6.00 )
Lumber	120.00 )
	for Soldiers use

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Total .....2189.75

I HEREBY CERTIFY THAT THE ABOVE IS A TRUE STATEMENT OF THE  
STOCK ON HAND OF THE BLACKSMITH SHOP, AS AT DECEMBER 31st, 1920.

Superintendent of Blacksmith Shop





# INVENTORY.

DECEMBER 31, 1920.

## KITCHEN STORES - PEMBINA HALL.

5 lbs. Almonds @ 70¢ per lb	3.50
4 cases Apples canned @ \$3.20 case	12.80
2 cases Apricots @ \$8.20	16.40
4 tins baking powder @ \$1. per tin	4.00
9 lbs baking soda @ 8¢ lb.	.75
25 lbs barley @ 8¢ lb.	2.00
25 lbs. beans @ 7¢ lb.	1.75
7 cases beans \$4.50 case	31.50
12 boxes capers @ \$1.45 doz.	1.45
4 cases Cherries @ \$8.00 case	32.00
4 lbs chocolate @ 45¢ lb	1.80
5 lbs cinnamon @ 29¢ lb	1.45
9 tins $\frac{1}{2}$ lb cocoa @ 45¢ lb	4.05
2 c. cornflakes @ 3.85	7.70
15 lbs starch	1.65
11 pts. gelatine @ \$1.90 pt	20.90
5 lbs ginger @ 1.75 for 5 lb.	1.75
8 tins jam bl. @ 1.00 tin	8.00
1 " Plum jam @ 1.00 tin	1.00
10 pts Jelly powders @ \$1.45 pk.	14.50
3 c. Marmalade @ \$10.00 case	30.00
5 tins molasses 50¢ tin	2.50
2 c. peaches 12.00 case	24.00
5 c. pears @ \$13.00 case	65.00
1 case. pears 4.20 case	4.20
5 lbs. pepper @ 51¢ lb	2.55
4 cases Pineapple \$9.00 case	36.00
3 cases prunes 3.50 case	10.50
3 cases Pumpkin 3.00 case	9.00
5 cases raspberries @ 11¢/00 Case	55.00
80 lbs Rolled oats 3.85	3.85
3 shs. Soda Washing 1.40 sh.	4.20
1 case strawberries @ 11.00 case	11.00
2 cases sugar bar 3.50 case	7.00
11 case sugar lump 20¢ lb	2.50
3 tins syrup 1.00 tin	3.00
3 cases tomatoes 4.20 case	12.60

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\$451.85

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# I N V E N T O R Y.

DECEMBER 31, 1920.

## KITCHEN STORES - ATHABASCA HALL.

1 case canned apples 3.05 case	3.05
20 lbs. baking soda 8¢ pound	1.60
50 lbs. barley 8¢ lb.	4.00
30 cases beans 4.75 case	142.50
5 c. bkyeberrues 5.00 case.	25.00
6 bottles bovril 1.00 bot.	6.00
18 " capers 2.95	2.95
4 c. Cherries 7.90 c.	31.60
13 lbs. chocolate 45¢ lb	5.85
Cinnamon 4.00 lb	4.00
4 bot. coloring 1.00 bot.	4.00
cocoa 13.90	13.90
18 Cases corn 4.80 c	86.40
2 c. cornflakes 4.00 case	8.00
1 case cornstarch 4.40 case	4.40
19 lemon extract 1 bottle	19.90
25 lbs. figs 13 c lb.	3.25
3 sks flour 5.75 Sack	11.50
3 pk. gelatine 1.90 pk	5.70
13 cases Grepelade 6.25 c.	81.25
15 tins honey 50¢ tin	7.50
10 pt. ice cream powder 57¢	5.70
1 jam. Raso. & Apple 9.00	17.25
3 c. Logenberry 13.00 c.	39.00
6 apricot 13.00 case	78.00
13 case plumll. case	143.00
2 c. Gooseberry 13.00 case	26.00
18 C. Raspberry 12.50 case	225.00
<del>1 case strawberry 14.00 case</del>	<del>14.00</del>
1 case strawberry 14.00 case	14.00
25 c. Bl.Currant Jelly 13.00 c.	325.00
9 c. Jelly powder 28.80	259.20
8 c. Lemon pir gillinh 4.50	36.00
1 c. Lobster 58¢ case	58.00
8 tins marmalade 80¢ tin	6.40
1 c. molasses 5.75 c.	5.75
12 lbs mustard 3.50	42.00
1 c. oysters 8.00 c.	8.00
4 c. peaches dried 7.50	30.00
11c. pears 13.00 c.	143.00
84 tins pears 10 t.	8.40
2 cases pears 4.20 c.	8.40
36 Pimentoos 10 t.	3.60
3 c. pork & Beans 5.50	16.50
4 c. pumpkin 2.90 c.	11.60
1 c. raspberries 12.00 c.	12.00

Forward.....\$ 2024.75





# Kitchen Stores - Athabasca 2-

Forward..... 2024.75

2 bags salt	6.90
3 cases soap 8.45 c	25.35
3 " sugar bar 4.00 case	12.00
5 sacks borwn sugar 15.00 per sk.	45.00
1 barrell icing sugar 13.00 br.	13.00
6 cases icing sugar 4.00	24.00
375 lbs lump sugar 20¢ lb	75.00
8 sks. gran. sugar 18.00 sk	144.00
1 case syrup 7.65 c	7.65
14 lbs tea 45¢ lb	6.30
4 cases tomatoes 4.20 c.	16.80
17 bottles vanilla 1.00 bot.	17.00

2426.75

## Athabasca Pantry Store;

100 lbs cooking butter	43.00
175 lbs Bpd butter	90.48
200 lbs lard	40.00
92 lbs chickens	20.24
120 lbs. ham	51.60
100 lbs. bacon	58.00
30 lbs cheese	10.50
282 lbs beef	28.20

342.02

Fruit, pickles, canned goods, approx. 150.00

492.02

TOTALS.....	PEMBINA.....	451.85
	ATHABASCA STORES.....	2426.75
	ATHABASCA PANTRY.....	492.02

3370.62

3304½ bushels potatoes in Root house..... 3304.50

6706.12

I HEREBY CERTIFY THAT THE ABOVE IS A TRUE STATEMENT OF THE  
AMOUNT OF STOCK ON HAND IN THE DEPARTMENT OF KITCHEN PROVISIONS  
ON HAND DECEMBER 31 st, 1920

Superintendent of House .



SCHEDULE OF SALARIES:

President, Dr. H. M. Tory	7750.00	
" Secy. Miss B. Ockley	<u>1320.00</u>	9070.00
Registrar, C. E. Race	3750.00	
Assistance, N. Ronning	570.00	
Miss M. Hayward	1200.00	
Miss F. Stubbs	1060.00	
A. Cook	642.24	
Miss M. Tregillus	304.00	
Miss B. Leisemer	304.84	
Miss B. Porteous	104.85	
Miss M. Fulmer	1000.00	
Miss A. Gillis	190.00	
Extra Assistance	<u>148.45</u>	9274.38
Bursar, A. West	500.00	
" Secy. E. Caudwell	1320.00	
Accountant, T. P. Newbigging	1724.45	
Book-keeper, V. Wiseman	1500.00	
Cashier, C. J. Spratt	1000.00	
R. Landown	299.60	
Stenographers, Miss M. E. Lloyd	1020.00	
" B. Montgomery	300.00	
" H. Edwards	420.00	
" M. Talbot	<u>180.00</u>	8264.05
Tele phone Operator, Miss M. McCauig	<u>720.00</u>	720.00
Librarian, F. G. Bowers	2500.00	
Assistant Librarian, Miss K. Calhoun	1545.00	
Assistant, Miss M. Summerhayes	588.95	
Extra Assistance	<u>210.00</u>	4843.95
Dean Arts & Science, W.A.R. Kerr	500.00	
Secretary, Miss A. K. Wilson	<u>1020.00</u>	1520.04
Agriculture, Dean E. A. Howes	500.00	
Secretary, Miss W. May	<u>1020.00</u>	1520.00
Supt. of Residences, Miss E. J. Russell	1800.00	
Assistant Supt., Miss A. Warden	900.00	
Advisor to Women students, Miss Dodd	600.00	
Provost, Dr. J. M. McEachren	<u>500.04</u>	3800.04
Classics, Prof. W. H. Alexander	4000.00	
Miss G. Misener	2600.00	
H. G. Hardy	1999.92	
L. C. Cox	<u>700.00</u>	9299.02

Forward.....

\$48312.38



64. 250000

## Salaries 2.

Brought forward.....		48312.38
English:	Dr. E. K. Broadus	4000.00
	Dr. R. K. Gordon	2800.00
	Ps. A. W. Wallace	2000.00
	D. E. Cameron	100.00
	J. T. Jones	150.00
	Miss J.F. Montgomery	56.25
		9106.25
Modern Languages:		
	Dean W.A.R. Kerr	3999.96
	J. F. Coar	3500.00
	A. P. Pelluet	2000.00
	J. B. Bickersteth	2000.00
	E. Sonet	1666.64
	Francis Owens	750.00
	Henri de Savoye	500.00
		14416.30
Philosophy:		
	Dr. J. M. MacEachran	3999.96
	William Berry	1499.94
	W. Fulton Gillespie	450.00
	Robert McQueen	300.00
		6249.90
Hebrew:	Rev. A. D. Miller	200.00
	Dr. D. E. Thomas	400.00
Drawing:	Mr. James Adam	2800.00
Clinical Medicine:		
	Dean. A. Rankin	500.00
	Dr. H. C. Jamieson	1000.00
Dr. W. A. Wilson		250.00
	Dr. G. C. Gray	250.00
		2000.00
Dentistry:		
	Dr. L. L. Fuller	900.00
	Dr. H. E. Bulyea	600.00
	Mr. R. M. Harmer	10.00
		1510.00
Anatomy:		
	Dr. D. G. Revell	3750.00
	Dr. E. N. Collins	2300.00
	Dr. Evan Green	525.00
	Dr. C. W. Hurlburt	150.00
	Dr. J. F. Follinsbee	200.00
	Dr. J. F. Adamson	200.00
	Dr. J. F. McPherson	250.00
	Dr. A. R. Munro	150.00
	Mr. A. G. Fairall	1200.00
		8725.00
Physiology:		
	Dr. A. W. Downs	1333.32
	Dr. J. B. Collip	3050.00
	Dr. N. B. Eddy	833.32
	Dr. Irving Bell	250.00
	Dr. P. L. Backus	1333.28
	A. A. Long	1500.00
	Charles Croft	572.02
	P. S. Irwin	150.00
	W. W. Bell	350.00
		9371.94

Carried forward.....\$103092.07





Salaries 3.

Brought forward..... 103092.07

**Mathematics:**

Dr. E. W. Sheldon	3750.00	
Dr. S. D. Killam	2800.00	
Mr. J. W. Campbell	800.00	
Mr. J. H. Milne	600.00	
Mr. R. B. Bryden-	150.00	
Mrs. E. T. Mitchell	216.68	
Mr. George Robinson	733.36	
Mr. A. J. Cook	480.00	9530.04

History: Mr. A. L. Burt	2800.00	
Mr. M. H. Long	2300.00	5100.00

**Political Economy:**

Dr. D. A. MacGibbon	3500.00	
Mr. A. F. McGoun	600.00	4100.00

**Chemistry:**

Dr. A. Lehmann	4000.00	
Dr. C. Walker	766.64	
Mr. A. D. Cowper	2300.00	
Mr. R. B. Sandin	1200.00	
Mr. N. Stover	1000.00	
Mr. J. P. Evans	670.00	
Mr. E. W. Gardiner	51.00	
Mr. T. H. Hatcher	1200.00	
Mr. A. D. McGregor	69.68	
Mr. C. D. Reid	150.00	
Mr. E. Gardiner	150.00	
Mr. L. Good	150.00	
Miss L. Fraser	122.58	
Mr. John Coyle	310.25	12140.15

**Biology & Zoology:**

Dr. F. J. Lewis	3750.00	
Miss G. Tuttle	1800.00	
Mr. A. Campbell	210.00	
Miss M. F. Rivett	450.00	
Mr. W. Rowan	933.32	
Miss D. Pelluet	225.00	
Mr. F. Howe	300.00	
Miss E. Cook	54.00	
Miss L. Ferguson	84.00	
Mr. E. McKittrick	27.00	
F. Brown	135.36	
Mr. T. G. Mason	1200.00	9198.68
Miss Hibbard	30.00	

**Mining Engineering:**

Mr. N. C. Pitcher	1666.65	
Mr. A. E. Cameron	2300.00	
Mr. R. Hollies	230.00	4196.65

Carried forward..... 147357.59





Salaries 4.

Brought forward.....		147357.59	
Geology:	Dr. J. A. Allan	3759.00	
	Mr. P. S. Warren	600.00	
	Miss V. Lee	570.00	
	J. O. Sanderson	397.10	
	J. S. Stewart	<u>105.00</u>	5422.10
Civil Engineering:	R. S. L. Wilson	3500.00	
	I. F. Morrison	2800.00	
	C. A. Robb	933.32	
	A. E. MacDonald	450.00	
	W. Fife	<u>1350.00</u>	9033.32
Physics:	Dr. R. W. Boyle	4000.00	
	Mr. S. Smith	2300.00	
	Mr. R. J. Lang	600.00	
	Mr. J. E. Duncan	375.00	
	Mr. S. C. Morgan	600.00	
	Mr. D. E. Edmunds	90.00	
M	Mr. H. B. Clow	1080.00	
	Mr. H. A. Pearce	241.00	
	Miss A. Norrington	200.00	
	Mr. R. S. Sheppard	62.00	
	Mr. F. A. Batson	62.50	
	Mr. R. P. Miller	95.00	
	Mr. J. A. Carswell	62.50	
	Mr. E. S. McKittrick	62.50	
	Mr. L. V. Miller	30.00	
	Mr. S. A. Francis	125.00	
	Mr. A. MacGilivray	<u>65.00</u>	10051.00
Household Economies:	Miss M. Patrick	2000.00	
	Miss E. Deadman	<u>1500.00</u>	3500.00
Physical Education:	Mr. D. A. MacRae	2400.00	
	Miss C. L. Fabb	1500.00	
	J. Buchanan	874.21	
	S. L. Saunders	45.00	
	A. J. Cook	75.00	
	T. Holmes	77.20	
	Dr. G. C. Gray	<u>250.00</u>	5221.41
Pharmacy:	H. H. Gaetz	3500.00	
	F. A. S. Dunn	2015.00	
	H. Lister	<u>672.75</u>	5582.75
Night Watchman:	J. Patston	<u>1200.00</u>	1200.00
Truck Driver:	H. Dean	<u>1200.00</u>	1200.00
Carried forward.....		188568.17	

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### Appendix 2: Abstract

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Variable	Mean	SD	Min	Max
Age	38.5	10.5	25	55
Gender	0.5	0.5	0	1
Marital status	0.5	0.5	0	1
Education	12.5	1.5	10	15
Income	35000	15000	20000	50000

例 2 求  $\lim_{x \rightarrow 0} \frac{1}{x} \ln \frac{1+x}{1-x}$ .

0.05 sec.

20. 1000  
 21. 0000  
 22. 0000  
 23. 0000  
 24. 0000

Accountant	1	1
Manager	1	1
Director	1	1
Assistant	1	1
Chief	1	1

• *Journal of Management Studies*, 1991, 28, 1, 1-15

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971).

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NAME	AGE	SEX	REL.
John	25	M	H
Mary	22	F	W
James	20	M	S
Elizabeth	18	F	D
Thomas	15	M	S
Ann	12	F	D
Robert	10	M	S
William	8	M	S
Elizabeth	6	F	D
John	4	M	S
Mary	3	F	D
James	2	M	S
Elizabeth	1	F	D

4. *Journal of Management Studies*, 1997, 34, 1, 1-14.

20. 7. 2011

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09-08-08

2001-2002	21	2001-2002	21
2002-2003	21	2002-2003	21

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Salaries 5.

Brought forward..... 188568.17

Agriculture:

Dean E. A. <sup>H</sup> owes	3750.00	
A. A. Dowell	3500.00	
F. H. Cutler	3750.00	
F. A. Wyatt	3500.00	
J. M. Smith	583.32	
R. Newton	1800.00	
J. R. Fryer	1250.00	
George Harcourt	2800.00	
J. E. Lattimer	2400.00	
W. J. Thompson	1800.00	
S. A. Bergey	400.00	
Dr. Talbot	850.00	
William Coull	450.00	
F. Hiron	450.00	
C. E. Christensen	300.00	
Miss S. Sparks	147.56	
Mrs. D. Bell	110.00	
Miss D. May	700.00	
Miss C. Lamont	850.00	29390.88

\$ 217959.05

.....



UNIVERSITY OF ALBERTA.

DECEMBER 31, 1920.

TRUST ACCOUNT.

Balance on hand December 31, 1919

Student's Union	1511.90	
Caution Money & Keys	4136.00	
Student's Deposits	2648.23	
Medical Service	1401.17	
Student's War Memorial Fund	214.98	
		9911.28

Receipts 1920.

Student's Union	6835.00	
Caution Money & Keys	4779.35	
Student's Deposits	70563.09	
Medical Service	2770.50	
War Memorial Fund	2762.59	
		87710.53
		97621.81

Disbursements 1920:

Students' Unions	6463.25	
Caution Money & Keys	3419.65	
Students Withdrawals	67271.46	
Medical Service	1791.72	
War Memorial Fund	924.83	
		79870.91
		17750.90

Balance as at December 31st, 1920.

Students' Unions	1883.65	
Caution Money & Keys	5495.70	
Student's Deposits	5938.86	
Medical Service	2379.95	
War Memorial Fund	2052.74	
		<u>\$17750.90</u>

UNIVERSITY OF ALABAMA

RECEIPTS

1940

Alabama as of December 31, 1939  
Student's Union  
Student's Union  
Student's Union  
Student's Union  
Student's Union  
Student's Union

1939.00  
1939.00  
1939.00  
1939.00  
1939.00  
1939.00

1939.00

Receipts 1939  
Student's Union  
Student's Union  
Student's Union  
Student's Union  
Student's Union  
Student's Union

1939.00  
1939.00  
1939.00  
1939.00  
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1939.00

Disbursements 1939  
Student's Union  
Student's Union  
Student's Union  
Student's Union  
Student's Union  
Student's Union

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1939.00  
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1939.00

Balance as of December 31, 1939

Student's Union  
Student's Union  
Student's Union  
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Student's Union

1939.00  
1939.00  
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1939.00



UNIVERSITY OF ALBERTA.

DECEMBER 31, 1920.

WWAR MEMORIAL FUND .

RECEIPTS:

Balance 31st December, 1919	214.98	
Hon. A. L. Sifton	1000.00	
Soldiers Comfort Club	379.64	
Proceeds from French Play	82.95	
W. A. R. Kerr	100.00	
Gillespie Elevator Company	250.00	
Alumni Society	750.00	
H. M. E. Evans	25.00	
H. H. Gaetz	50.00	
James Ramsay	125.00	
		<u>\$2977.57</u>

DISBURSEMENTS:

Henri Herbert for sketching design of monument	200.00	
C. N. Tooke, Loan	25.00	
Express charges on box from Montreal containing Model of monument	25.05	
Stationery, writing material etc.	7.00	
500 large envelopes & circulars	9.25	
Miss H. B. Montgomery, Steno. work	180.00	
Steel Transfer Case, office		
Specialty Company	7.25	
University of Alberta Bookstore	44.30	
Postage Stamps	27.00	
H. Garrioch	250.00	
J. L. Hollinshead	50.00	
J. M. Lewis	100.00	400.00
		<u>924.83</u>

Balance on hand Imperial Bank of

Canada December 31., 1920

2052.74

\$2977.57

20.  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

1. *THEORY OF THE STATE*

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1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 84











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## References

University of Alberta.

December 31st, 1920.

ALBERTA PHARMACEUTICAL ASSOCIATION.

|                                     |           |
|-------------------------------------|-----------|
| Balance on hand DECEMBER 31st, 1919 | 2273.30   |
| Coupons                             | 75.00     |
| Interest during year 1920           | 102.90    |
| Sale of Bonds (Anglo French)        | 3000.00   |
| Interest and Exchange               | 434.45    |
| Coupons                             | 420.00    |
|                                     | <hr/>     |
|                                     | \$6305.65 |

Balance on hand December 31st, 1920

|                         |                  |
|-------------------------|------------------|
| Imperial Bank of Canada | <u>\$6305.65</u> |
|-------------------------|------------------|

# STATE OF ALABAMA

OFFICE OF THE COMPTROLLER

## REVENUE ACCOUNTS

|            |                                 |
|------------|---------------------------------|
| 1971-72    | Balance on hand January 1, 1971 |
| 12,000     |                                 |
| 100,000    | Interest on bonds (1971-72)     |
| 200,000    | Interest on bonds (1972-73)     |
| 400,000    | Interest on bonds (1973-74)     |
| 600,000    | Interest on bonds (1974-75)     |
| 800,000    | Interest on bonds (1975-76)     |
| 1,000,000  | Interest on bonds (1976-77)     |
| 1,200,000  | Interest on bonds (1977-78)     |
| 1,400,000  | Interest on bonds (1978-79)     |
| 1,600,000  | Interest on bonds (1979-80)     |
| 1,800,000  | Interest on bonds (1980-81)     |
| 2,000,000  | Interest on bonds (1981-82)     |
| 2,200,000  | Interest on bonds (1982-83)     |
| 2,400,000  | Interest on bonds (1983-84)     |
| 2,600,000  | Interest on bonds (1984-85)     |
| 2,800,000  | Interest on bonds (1985-86)     |
| 3,000,000  | Interest on bonds (1986-87)     |
| 3,200,000  | Interest on bonds (1987-88)     |
| 3,400,000  | Interest on bonds (1988-89)     |
| 3,600,000  | Interest on bonds (1989-90)     |
| 3,800,000  | Interest on bonds (1990-91)     |
| 4,000,000  | Interest on bonds (1991-92)     |
| 4,200,000  | Interest on bonds (1992-93)     |
| 4,400,000  | Interest on bonds (1993-94)     |
| 4,600,000  | Interest on bonds (1994-95)     |
| 4,800,000  | Interest on bonds (1995-96)     |
| 5,000,000  | Interest on bonds (1996-97)     |
| 5,200,000  | Interest on bonds (1997-98)     |
| 5,400,000  | Interest on bonds (1998-99)     |
| 5,600,000  | Interest on bonds (1999-00)     |
| 5,800,000  | Interest on bonds (2000-01)     |
| 6,000,000  | Interest on bonds (2001-02)     |
| 6,200,000  | Interest on bonds (2002-03)     |
| 6,400,000  | Interest on bonds (2003-04)     |
| 6,600,000  | Interest on bonds (2004-05)     |
| 6,800,000  | Interest on bonds (2005-06)     |
| 7,000,000  | Interest on bonds (2006-07)     |
| 7,200,000  | Interest on bonds (2007-08)     |
| 7,400,000  | Interest on bonds (2008-09)     |
| 7,600,000  | Interest on bonds (2009-10)     |
| 7,800,000  | Interest on bonds (2010-11)     |
| 8,000,000  | Interest on bonds (2011-12)     |
| 8,200,000  | Interest on bonds (2012-13)     |
| 8,400,000  | Interest on bonds (2013-14)     |
| 8,600,000  | Interest on bonds (2014-15)     |
| 8,800,000  | Interest on bonds (2015-16)     |
| 9,000,000  | Interest on bonds (2016-17)     |
| 9,200,000  | Interest on bonds (2017-18)     |
| 9,400,000  | Interest on bonds (2018-19)     |
| 9,600,000  | Interest on bonds (2019-20)     |
| 9,800,000  | Interest on bonds (2020-21)     |
| 10,000,000 | Interest on bonds (2021-22)     |

## REVENUE ACCOUNTS

|            |                                 |
|------------|---------------------------------|
| 1971-72    | Balance on hand January 1, 1971 |
| 12,000     |                                 |
| 100,000    | Interest on bonds (1971-72)     |
| 200,000    | Interest on bonds (1972-73)     |
| 400,000    | Interest on bonds (1973-74)     |
| 600,000    | Interest on bonds (1974-75)     |
| 800,000    | Interest on bonds (1975-76)     |
| 1,000,000  | Interest on bonds (1976-77)     |
| 1,200,000  | Interest on bonds (1977-78)     |
| 1,400,000  | Interest on bonds (1978-79)     |
| 1,600,000  | Interest on bonds (1979-80)     |
| 1,800,000  | Interest on bonds (1980-81)     |
| 2,000,000  | Interest on bonds (1981-82)     |
| 2,200,000  | Interest on bonds (1982-83)     |
| 2,400,000  | Interest on bonds (1983-84)     |
| 2,600,000  | Interest on bonds (1984-85)     |
| 2,800,000  | Interest on bonds (1985-86)     |
| 3,000,000  | Interest on bonds (1986-87)     |
| 3,200,000  | Interest on bonds (1987-88)     |
| 3,400,000  | Interest on bonds (1988-89)     |
| 3,600,000  | Interest on bonds (1989-90)     |
| 3,800,000  | Interest on bonds (1990-91)     |
| 4,000,000  | Interest on bonds (1991-92)     |
| 4,200,000  | Interest on bonds (1992-93)     |
| 4,400,000  | Interest on bonds (1993-94)     |
| 4,600,000  | Interest on bonds (1994-95)     |
| 4,800,000  | Interest on bonds (1995-96)     |
| 5,000,000  | Interest on bonds (1996-97)     |
| 5,200,000  | Interest on bonds (1997-98)     |
| 5,400,000  | Interest on bonds (1998-99)     |
| 5,600,000  | Interest on bonds (1999-00)     |
| 5,800,000  | Interest on bonds (2000-01)     |
| 6,000,000  | Interest on bonds (2001-02)     |
| 6,200,000  | Interest on bonds (2002-03)     |
| 6,400,000  | Interest on bonds (2003-04)     |
| 6,600,000  | Interest on bonds (2004-05)     |
| 6,800,000  | Interest on bonds (2005-06)     |
| 7,000,000  | Interest on bonds (2006-07)     |
| 7,200,000  | Interest on bonds (2007-08)     |
| 7,400,000  | Interest on bonds (2008-09)     |
| 7,600,000  | Interest on bonds (2009-10)     |
| 7,800,000  | Interest on bonds (2010-11)     |
| 8,000,000  | Interest on bonds (2011-12)     |
| 8,200,000  | Interest on bonds (2012-13)     |
| 8,400,000  | Interest on bonds (2013-14)     |
| 8,600,000  | Interest on bonds (2014-15)     |
| 8,800,000  | Interest on bonds (2015-16)     |
| 9,000,000  | Interest on bonds (2016-17)     |
| 9,200,000  | Interest on bonds (2017-18)     |
| 9,400,000  | Interest on bonds (2018-19)     |
| 9,600,000  | Interest on bonds (2019-20)     |
| 9,800,000  | Interest on bonds (2020-21)     |
| 10,000,000 | Interest on bonds (2021-22)     |



University of Alberta.

Dec. 31st, 1920.

DR. BLAIR'S PRIZE.

Balance on hand December 31st, 1919      \$10.20

Interest during the year      .27

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\$ 10.47

Balance on hand December 31st, 1920.

Imperial Bank of Canada      \$ 10.47

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UNIVERSITY OF ALABAMA

Dec. 15, 1954

Mr. J. H. Smith

Balance on hand December 1st, 1954 \$10.00  
Interest during the year 75

\$ 10.75

Balance on hand December 1st, 1955 \$10.00  
Interest during the year 75

\$ 10.75

University of Alberta.

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December 31st, 1920.

WOMAN'S UNIVERSITY CLUB SCHOLARSHIP.

|                                     |       |
|-------------------------------------|-------|
| Balance on hand December 31st, 1919 | 17.00 |
| Interest during year 1920           | 4.60  |
| Coupons Deposited \$100.00          | 5.00  |
| " " 500.00                          | 25.00 |
| " " "                               | 2.75  |
| " " "                               | 1.37  |

---

\$56.27

Balance on hand December 31st, 1920

Imperial Bank of Canada

\$56.27

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University of Alberta

December 31st, 1920.

UNIVERSITY OF ALBERTA

|       |                                     |
|-------|-------------------------------------|
| 17.30 | Balance on hand December 31st, 1919 |
| 4.80  | Interest during year 1920           |
| 5.00  | Summons Deposited \$100.00          |
| 25.00 | " " 500.00                          |
| 4.75  | " " "                               |
| 1.25  | " " "                               |

Balance on hand December 31st, 1920

Imperial Bank of Canada

\$58.3



University of Alberta.

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December 31st, 1920

WOMENS' UNIVERSITY CLUB LOAN FUND

---

Balance on hand DECEMBER 31st, 1919 \$196.49

Interest during 1920 5.95

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\$302.44

Balance on hand December 31st, 1920

Imperial Bank of Canada

\$202.44

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University of Alberta

December 31st, 1920

UNIVERSITY OF ALBERTA

\$196.48

January 1st, 1921

27.2

January 1st, 1921

1920

January 1st, 1921

January 1st, 1921

1920

University of Alberta.

December 31st, 1920.

19th ALBERTA DRAGOONS.

I. O. D. E.

Balance on hand December 31st, 1919      \$54.24

Interest during 1920      1.37

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\$55.61

Balance on hand Imperial Bank of Canada

December 31st, 1920.      \$55.61

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UNIVERSITY OF ALABAMA

December 31st, 1980.

1979 ALABAMA DRAGONBOAT

I. C. S. S.

\$54.84

Balance on hand December 31st, 1979

1.87

Interest during 1980

\$56.71

Balance on hand December 31st, 1980

\$58.58

December 31st, 1980.



University of Alberta.

December 31st, 1920.

STUDENTS' LOAN FUND.

|                                     |          |
|-------------------------------------|----------|
| Balance on hand December 31st, 1919 | \$613.55 |
| To Deposits University Grant, 1919  | 200.00   |
| " " " " 1920                        | 200.00   |
| Interest during year 1920           | 8.05     |
| Refund to Loan, T.J.Wilson          | 150.00   |
| Interest on Loan                    | 4.25     |
|                                     | <hr/>    |
|                                     | 1175.85  |

|               |        |        |
|---------------|--------|--------|
| J. L. Nicol   | 313.80 |        |
| Whitney Banks | 150.00 |        |
| F. J. Wilson  | 150.00 |        |
| A. C. Francis | 70.00  |        |
| F. E. Symes   | 80.00  |        |
|               | <hr/>  | 763.80 |

Balance Imperial Bank of Canada  
December 31st, 1920

\$412.05

UNIVERSITY OF ALABAMA

December 31st, 1930.

UNIVERSITY OF ALABAMA

|        |                                    |
|--------|------------------------------------|
| 200.00 | Balance forward from 1929, 1930    |
| 200.00 | To Deposits University Grant, 1919 |
| 200.00 | " " " " " "                        |
| 180.00 | Interest on Loan                   |
| 4.88   | Returned to Loan, T. J. Wilson     |

1175.88

|        |                  |
|--------|------------------|
| 200.00 | T. J. Wilson     |
| 180.00 | University Grant |
| 180.00 | T. J. Wilson     |
| 180.00 | T. J. Wilson     |
| 180.00 | T. J. Wilson     |
| 180.00 | T. J. Wilson     |

1175.88

UNIVERSITY OF ALABAMA  
December 31st, 1930

University of Alberta.

December 31st, 1920.

LAW LIBRARY FUND.

|  |          |
|--|----------|
| To balance on hand December 31st, 1919 | \$513.05 |
| Interest during 1920                   | 15.50    |

\$528.55

Balance on hand December 31st, 1920

Imperial Bank of Canada

\$528.55

UNIVERSITY OF VIRGINIA

RECEIVED, JAN 1961

RECEIVED, JAN 1961

NO. 1000

RECEIVED, JAN 1961

NO. 1000

RECEIVED, JAN 1961

NO. 1000

RECEIVED, JAN 1961

NO. 1000

RECEIVED, JAN 1961



University of Alberta.

December 31st, 1920.

Woman's University Club.

Colonial History Book Account.

|                                     |         |          |
|-------------------------------------|---------|----------|
| Balance on hand December 31st, 1919 | \$59.82 |          |
| Interest during the year 1920       | 1.80    |          |
|                                     |         | <hr/>    |
|                                     |         | \$ 61.62 |

|                                     |          |
|-------------------------------------|----------|
| Balance on hand December 31st, 1920 |          |
| Imperial Bank of Canada             | \$ 61.62 |
|                                     | <hr/>    |

REVENUE DEPARTMENT

CHIEF, TAX DIVISION

REVENUE DEPARTMENT

REVENUE DEPARTMENT

1950

REVENUE DEPARTMENT

1950

Interest during the year 1950

1950

REVENUE DEPARTMENT

1950

REVENUE DEPARTMENT

University of Alberta.  
Y

December 31st, 1920.

ROCKEFELLER FOUNDATION.

|             |           |
|-------------|-----------|
| 1st payment | \$6250.00 |
| Exchange    | 882.67    |

---

\$ 7132.67

Balance on hand December 31st, 1920

|                         |            |
|-------------------------|------------|
| Imperial Bank of Canada | \$ 7132.67 |
|-------------------------|------------|

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University of Alberta

December 31st, 1930

IMPERIAL BANK OF CANADA

\$2250.00

682.67

at payment

Exchange

\$ 7132.67

Balance on hand December 31st, 1930

\$ 7132.67

Imperial Bank of Canada







